Алматы (7273)495-231
Ангарск (3955)60-70-56
Архангельск (8182)63-90-72
Астрахань (8512)99-46-04
Барнаул (3852)73-04-60
Белгород (4722)40-23-64
Благовещенск (4162)22-76-07
Брянск (4832)59-03-52
Владивосток (423)249-28-31
Владикавказ (8672)28-90-48
Владимир (4922)49-43-18
Волгоград (844)278-03-48
Вологда (8172)26-41-59
Воронеж (473)204-51-73
Екатеринбург (343)384-55-89
Иваново (4932)77-34-06
Ижевск (3412)26-03-58
Иркутск (395)279-98-46
Казань (843)206-01-48
Калининград (4012)72-03-81
Калуга (4842)92-23-67
Кемерово (3842)65-04-62
Киров (8332)68-02-04
Коломна (4966)23-41-49
Кострома (4942)77-07-48
Краснодар (861)203-40-90
Красноярск (391)204-63-61
Курск (4712)77-13-04
Курган (3522)50-90-47
Липецк (4742)52-20-81
Магнитогорск (3519)55-03-13
Москва (495)268-04-70
Мурманск (8152)59-64-93
Набережные Челны (8552)20-53-41
Нижний Новгород (831)429-08-12
Новокузнецк (3843)20-46-81
Ноябрьск (3496)41-32-12
Новосибирск (383)227-86-73
Омск (3812)21-46-40
Орел (4862)44-53-42
Оренбург (3532)37-68-04
Пенза (8412)22-31-16
Петрозаводск (8142)55-98-37
Псков (8112)59-10-37
Пермь (342)205-81-47
Ростов-на-Дону (863)308-18-15
Рязань (4912)46-61-64
Самара (846)206-03-16
Саранск (8342)22-96-24
Санкт-Петербург (812)309-46-40
Саратов (845)249-38-78
Севастополь (8692)22-31-93
Симферополь (3652)67-13-56
Смоленск (4812)29-41-54
Сочи (862)225-72-31
Ставрополь (8652)20-65-13
Сургут (3462)77-98-35
Сыктывкар (8212)25-95-17
Тамбов (4752)50-40-97
Тверь (4822)63-31-35
Тольятти (8482)63-91-07
Томск (3822)98-41-53
Тула (4872)33-79-87
Тюмень (3452)66-21-18
Ульяновск (8422)24-23-59
Улан-Удэ (3012)59-97-51
Уфа (347)229-48-12
Хабаровск (4212)92-98-04
Чебоксары (8352)28-53-07
Челябинск (351)202-03-61
Череповец (8202)49-02-64
Чита (3022)38-34-83
Якутск (4112)23-90-97
Ярославль (4852)69-52-93

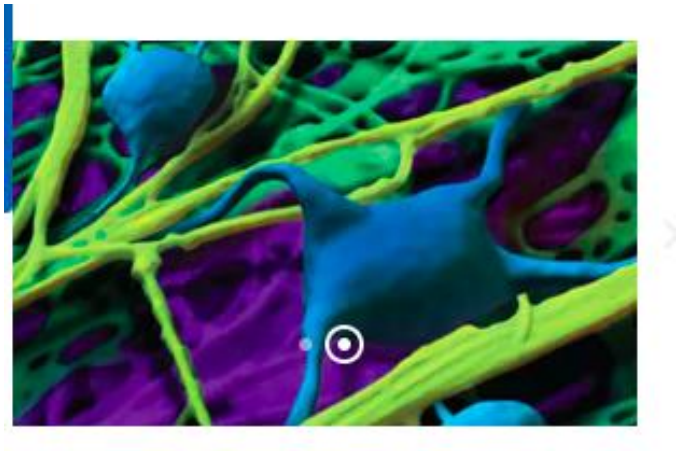
Россия +7(495)268-04-70 **Казахстан** +7(7172)727-132 **Киргизия** +996(312)96-26-47

www.sigmaaldrich.nt-rt.ru | | scx@nt-rt.ru

Технические характеристики на добавки и реагенты для клеточных культур, ч.3 компании Sigma-Aldrich

Виды товаров: природные и синтетические гликопротеины – ламинин, фибронектин, поли-L-лизин, поли-D-лизин, коллаген, витронектин, тромбоспондин, галектин, нидоген-1;
факторы роста и цитокины – аминокислоты в клеточной культуре, полиаминокислоты, ненатуральные аминокислоты.

Attachment Factors



Mammalian cells grow within a complex mixture of extracellular polymers and signaling molecules in vivo. This mixture is called the extracellular matrix (ECM) and interactions between it and the cell are critical for physiological processes including cellular growth and differentiation, formation of morphological features, and cell motility. Some cells cultured *in vitro* have the capacity to readily express and secrete the components of the ECM when grown on glass or polystyrene culturing chambers. Other cell types do not readily produce ECM components and can therefore be challenging to culture when they do not adhere to the culture surface, limiting their capacity for predictive modeling of physiological processes. One solution is to coat cultureware with components of the ECM, or with synthetic polymers that otherwise mimic the interactions between a cell and the ECM. These components are referred to as attachment factors, and they can be a critical component of culturing healthy and viable cells *in vitro*.

ESSENTIAL ATTACHMENT FACTORS

Numerous natural and synthetic attachment factors have been developed for use in cell culture applications. In some cases, attachment factors must be tested empirically for suitability for a given cell culturing condition. Below is a list of common attachment factors for consideration when optimizing cell culture conditions.

- Laminin
- Fibronectin
- Poly-L-Lysine
- Poly-D-Lysine
- Collagen
- Vitronectin
- Thrombospondin
- Galectin
- Nidogen-1

CHOOSING ATTACHMENT FACTORS

Many of these attachment factors are derived from different biological sources, and occur as multiple isoforms. Some attachment factors are purely synthetic, like Poly-L-Lysine. In certain applications, a peptide fragment of a factor (such as collagen) can be a useful alternative to the full-length protein. For convenience in cell culture applications, many attachment factors can be purchased in a liquid format that facilitates coating cultureware; for even greater efficiency, culture surfaces precoated with attachment factors save time and increase reproducibility.

ECM675
3D Collagen Culture Kit

A1960
Aggrecan from bovine articular cartilage
lyophilized powder (from a sterile-filtered solution)

123-100
Attachment Factor Solution (100 ML)

B8041
Biglycan from bovine articular cartilage
(essentially salt-free (from 0.2 µm filtered solution))

CC086
Bovine Collagen Type VI

5089
CD14 human
recombinant, expressed in *E. coli*, 0.5 mg protein/mL

5086
CD2 human
recombinant, expressed in *E. coli*, 0.5 mg protein/mL

5123
CD276 human
recombinant, expressed in *E. coli*, 0.5 mg protein/mL

5093
CD40 human
recombinant, expressed in *E. coli*, 0.5 mg protein/mL

CC117
Chicken Extracellular Chondroitin Sulfate Proteoglycans

CC118
Chicken Tenascin

CC115
Chicken Tenascin

11179179001
Collagen
from rat tail tendon

5162
Collagen
from bovine flexor tendon

L7220
Collagen A

C8919
Collagen from calf skin
Bornstein and Traub Type I, (0.1% solution in 0.1 M acetic acid), aseptically processed, BioReagent, suitable for cell culture

C9791
Collagen from calf skin
Bornstein and Traub Type I, solid, BioReagent, suitable for cell culture

C9301
Collagen from chicken sternal cartilage
Type II (Miller), powder, BioReagent, suitable for cell culture

C0543
Collagen from Engelbreth-Holm-Swarm murine sarcoma basement membrane
Type IV (Miller), lyophilized powder, BioReagent, suitable for cell culture

C5533
Collagen from human placenta
Bornstein and Traub Type IV, powder, BioReagent, suitable for cell culture

C7661
Collagen from rat tail
Bornstein and Traub Type I, powder, BioReagent, suitable for cell culture

L7213
Collagen G
Type 1 from calf skin, 0.4% solution in HCl, 4 mg/mL

C2124
Collagen solution from bovine skin
6 mg/mL, sterile-filtered, BioReagent, suitable for cell culture, and for 3D matrix formation.

C4243
Collagen solution from bovine skin
BioReagent, suitable for cell culture, and for 3D matrix formation, sterile-filtered

C2249
Collagen Solution from human fibroblasts
3 mg/mL, sterile-filtered, BioReagent, suitable for cell culture

08-115
Collagen Type I, rat tail

C6745
Collagen Type IV from human cell culture
Bornstein and Traub Type IV, 0.3 mg/mL, sterile-filtered, BioReagent, suitable for cell culture

C3867
Collagen, Type I solution from rat tail
BioReagent, suitable for cell culture, sterile-filtered

5140
CytoSoft®
Elastic Moduli 0.5 kPa

5145
CytoSoft®
Elastic Moduli 64 kPa

5142
CytoSoft®
Elastic Moduli 8 kPa

5141
CytoSoft®
Elastic Moduli 2 kPa

5143
CytoSoft®
Elastic Moduli 16 kPa

5144
CytoSoft®
Elastic Moduli 32 kPa

5165
CytoSoft®

Elastic Moduli 0.2 kPa

5190
CytoSoft®, Discovery Kit
Multiple Elastic Moduli, (0.2, 0.5, 2, 8, 16, 32, 64 kPa)

D8428
Decorin from bovine articular cartilage
salt-free, lyophilized powder, sterile-filtered

5085
E-Cadherin human
recombinant, expressed in *E. coli*, 0.5 mg protein/mL

E2153
E-Cadherin/Fc Chimera from mouse
>90% (SDS-PAGE), recombinant, expressed in NSO cells, lyophilized powder

08-110
ECL Cell Attachment Matrix

5133
FibriCol®
Collagen solution from Bovine hide, 97% Type I with the remainder of Type III collagen, suitable for cell culture

10838039001
Fibronectin
from human plasma

FIBRP-RO
Fibronectin (pure)
from human plasma, >95% (SDS-PAGE), lyophilized (clear, colorless solution after reconstitution)

F1904
Fibronectin 120 kDa α Chymotryptic Fragment (Cell Attachment region), Human purified

F1903
Fibronectin 40 kDa α Chymotryptic Fragment (Heparin-binding region), Human purified

F4759
Fibronectin bovine plasma
powder, BioReagent, suitable for cell culture

F1141

Fibronectin bovine plasma
solution, sterile-filtered, BioReagent, suitable for cell culture

F3542
Fibronectin Fragment III_1-C human
recombinant, expressed in *E. coli*, lyophilized powder

F0895
FIBRONECTIN FROM HUMAN PLASMA
liquid, 0.1% (Solution), BioReagent, suitable for cell culture

ECM001
Fibronectin human
recombinant, expressed in HEK 293 cells, lyophilized powder, suitable for cell culture

F2518
Fibronectin human foreskin fibroblasts
lyophilized powder, suitable for cell culture

F2006
Fibronectin human plasma
lyophilized powder, BioReagent, suitable for cell culture

F1056
Fibronectin human plasma
lyophilized powder, BioReagent, suitable for cell culture, ≥95% (SDS-PAGE)

F0162
Fibronectin Proteolytic Fragment from human plasma
lyophilized powder, 45 kDa

F0287
Fibronectin Proteolytic Fragment from human plasma
lyophilized powder, 70 kDa

F9911
Fibronectin Proteolytic Fragment from human plasma
lyophilized powder, 30 kDa

F0635
Fibronectin rat plasma
powder, BioReagent, suitable for cell culture

F0556
Fibronectin solution human fibroblasts
cell culture derived, ~0.5 mg/mL, sterile-filtered, BioReagent, suitable for cell culture

FC014
Fibronectin, Bovine

G9391
Gelatin from bovine skin
Type B, powder, BioReagent, suitable for cell culture

G7041
Gelatin from cold water fish skin
solid

G1890
Gelatin from porcine skin
powder, gel strength ~300 g Bloom, Type A, BioReagent, suitable for electrophoresis, suitable for cell culture

G9136
Gelatin from porcine skin
Type A, lyophilized powder, γ-irradiated, BioXtra, suitable for cell culture

G1393
Gelatin solution
Type B, 2% in H2O, tissue culture grade, BioReagent, suitable for cell culture

H4777
Heparan sulfate proteoglycan
≥400 µg/mL glycosaminoglycan

CC050
Human Collagen Type I

CC052
Human Collagen Type II

CC054
Human Collagen Type III

CC076
Human Collagen Type IV

CC077
Human Collagen Type V

AG56P
Human Laminin (pepsinized) Purified Protein

FC010
Human Plasma Fibronectin Purified Protein
This Human plasma fibronectin is a purified protein, used as an attachment factor suitable for cell propagation in vitro.

CC065
Human Tenascin-C Purified Protein

O6503
L-Ornithine monohydrochloride
BioReagent, suitable for cell culture, ≥99%

11243217001
Laminin
from mouse Engelbreth-Holm-Swarm (EHS) sarcoma

L2020
Laminin from Engelbreth-Holm-Swarm murine sarcoma basement membrane
1-2 mg/mL in Tris-buffered saline, 0.2 µm filtered, BioReagent, suitable for cell culture

L4544
Laminin from human fibroblasts
cell culture derived, liquid, sterile-filtered

CC095-M
Laminin, mouse purified
Laminins are the major noncollagenous constituent of basement membranes. This purified mouse laminin was isolated from Engelbreth-Holm-Swarm (EHS) mouse sarcoma, a mouse tumor that produces large amounts of basement membranes.

26003K
MAPTrix™ Adhesive
Low Molecular Weight, Tyrosinase-Pretreated, lyophilized powder

26004K
MAPTrix™ Adhesive
High Molecular Weight, Tyrosinase-Pretreated, lyophilized powder

160022K
MAPTrix™ Reagent
High Molecular Weight, aqueous solution

160024K
MAPTrix™ Reagent
High Molecular Weight, aqueous solution

26001K
MAPTrix™ Reagent
Low Molecular Weight, lyophilized powder

160012K
MAPTrix™ Reagent
Low Molecular Weight, aqueous solution

160014K
MAPTrix™ Reagent
Low Molecular Weight, aqueous solution

165042K
MAPTRIX-C- GFPGER
Collagen Mimetic, aqueous solution

165044K
MAPTRIX-C- GFPGER
Collagen Mimetic, aqueous solution

165062K
MAPTRIX-C-DGEA
Collagen Mimetic, aqueous solution

165064K
MAPTRIX-C-DGEA
Collagen Mimetic, aqueous solution

166232K
MAPTRIX-C-GEFYFDLRLKGDK
Collagen Mimetic, aqueous solution

166234K
MAPTRIX-C-GEFYFDLRLKGDK
Collagen Mimetic, aqueous solution

165012K
MAPTRIX-C-GLPGER
Collagen Mimetic, aqueous solution

165014K
MAPTRIX-C-GLPGER
Collagen Mimetic, aqueous solution

166212K
MAPTRIX-C-TAGSCLRKFSTM

Collagen Mimetic, aqueous solution

166214K
MAPTRIX-C-TAGSCLRKFSTM
Collagen Mimetic, aqueous solution

166312K
MAPTRIX-C-TAIPSCPEGTVPLYS
Collagen Mimetic, aqueous solution

166314K
MAPTRIX-C-TAIPSCPEGTVPLYS
Collagen Mimetic, aqueous solution

167022K
MAPTRIX-E- LFSHAVSSNG
Cadherin Mimetic, aqueous solution

167032K
MAPTRIX-E-ADTPPV
Cadherin Mimetic, aqueous solution

167034K
MAPTRIX-E-ADTPPV
Cadherin Mimetic, aqueous solution

167024K
MAPTRIX-E-LFSHAVSSNG
Cadherin Mimetic, aqueous solution

167082K
MAPTRIX-E-LRAHAVDING
Cadherin Mimetic, aqueous solution

167084K
MAPTRIX-E-LRAHAVDING
Cadherin Mimetic, aqueous solution

161044K
MAPTRIX-F- PHSRN
Fibronectin Mimetic, aqueous solution

161072K
MAPTRIX-F-GRGDSP
Fibronectin Mimetic, aqueous solution

161042K
MAPTRIX-F-PHSRN
Fibronectin Mimetic, aqueous solution

161252K
MAPTRIX-F-PHSRN-RGDSP
Fibronectin Mimetic, aqueous solution

161254K
MAPTRIX-F-PHSRN-RGDSP
Fibronectin Mimetic, aqueous solution

161242K
MAPTRIX-F-REDV
Fibronectin Mimetic, aqueous solution

161244K
MAPTRIX-F-REDV
Fibronectin Mimetic, aqueous solution

161054K
MAPTRIX-F-RGD
Fibronectin Mimetic, aqueous solution

161052K
MAPTRIX-F-RGD
Fibronectin Mimetic, aqueous solution

162242K
MAPTRIX-L-IKVAV
Laminin Mimetic, aqueous solution

162244K
MAPTRIX-L-IKVAV
Laminin Mimetic, aqueous solution

164422K
MAPTRIX-L-KAFDITYVRLKF
Laminin Mimetic, aqueous solution

162932K
MAPTRIX-L-KNSFMALYLSKG
Laminin Mimetic, aqueous solution

162934K
MAPTRIX-L-KNSFMALYLSKG
Laminin Mimetic, aqueous solution

162262K
MAPTRIX-L-NRWHSIYITRFG
Laminin Mimetic, aqueous solution

162264K
MAPTRIX-L-NRWHSIYITRFG
Laminin Mimetic, aqueous solution

162322K
MAPTRIX-L-RKRLQVQLSIRT
Laminin Mimetic, aqueous solution

162324K
MAPTRIX-L-RKRLQVQLSIRT
Laminin Mimetic, aqueous solution

164602K
MAPTRIX-L-RNIAEIIKDI
Laminin Mimetic, aqueous solution

164604K
MAPTRIX-L-RNIAEIIKDI
Laminin Mimetic, aqueous solution

162042K
MAPTRIX-L-RQVFQVAYIIIKA
Laminin Mimetic, aqueous solution

162044K
MAPTRIX-L-RQVFQVAYIIIKA
Laminin Mimetic, aqueous solution

164112K
MAPTRIX-L-RYVVLPR
Laminin Mimetic, aqueous solution

164114K
MAPTRIX-L-RYVVLPR
Laminin Mimetic, aqueous solution

162292K
MAPTRIX-L-TWYKIAFQRNRK
Laminin Mimetic, aqueous solution

162294K
MAPTRIX-L-TWYKIAFQRNRK
Laminin Mimetic, aqueous solution

164142K
MAPTRIX-L-YIGSR
Laminin Mimetic, aqueous solution

164144K
MAPTRIX-L-YIGSR
Laminin Mimetic, aqueous solution

168312K
MAPTRIX-M-VAEIDGIEL
Tenascin-C Mimetic, aqueous solution

168314K
MAPTRIX-M-VAEIDGIEL
Tenascin-C Mimetic, aqueous solution

168012K
MAPTRIX-V-FRHRNRKGY
Vitronectin Mimetic, aqueous solution

168014K
MAPTRIX-V-FRHRNRKGY
Vitronectin Mimetic, aqueous solution

168024K
MAPTRIX-V-KKQRFRHRNRKGY
Vitronectin Mimetic, aqueous solution

ECM205
Millicoat® ECM Screening Kit, 1 ea. ECM101-ECM105
Millicoat®, pkg of 96-well plate(s) (for fibronectin, vitronectin, laminin, collagen I & collagen IV)

ECM104
Millicoat® Human Collagen Type I Coated Strips (96-Wells)
96-well plate coated with human Collagen Type I used for cell adhesion studies.

ECM105
Millicoat® Human Collagen Type IV Coated Strips (96-Wells)
96-well plate coated with human Collagen Type IV used for cell adhesion studies.

ECM101
Millicoat® Human Fibronectin Coated Strips (96-Wells)
Millicoat Cell Adhesion Strips are provided as 12 x 8-well removable strips in a 96-well plate frame for convenience & flexibility in designing assays.

ECM103

Millicoat® Human Laminin Coated Strips (96-Wells)
96-well plate coated with human laminin used for cell adhesion studies.

ECM102
Millicoat® Human Vitronectin Coated Strips (96-Wells)
Millicoat Cell Adhesion Strips are provided as 12 x 8-well removable strips in a 96-well plate frame for convenience & flexibility in designing assays.

D8935
Nidogen-1 (NID1) human
recombinant, expressed in HEK 293 cells, suitable for cell culture

CC130
PluriSTEM-XF® Recombinant Vitronectin
Human pluripotent stem cell culture.

A-004-M
Poly-L-Ornithine Solution (0.01%)

5006
PureCol™
Collagen powder from Bovine hide, 97% Type I with the remainder of Type III collagen, suitable for cell culture

5074
PureCol™ EZ Gel solution

CC145
Rat Laminin-5

12-220
Serine Phosphopeptide (RRApSVA)

5138
SphereCol®
Human Collagen Type I Coated Beads, for 3D bio-scaffold

S5171
Superfibronectin from human plasma
solution, BioReagent, suitable for cell culture

SCR127

Synthetic Laminin Peptide for Rat Neural Stem Cells

ECM002
Thrombospondin-1 human
recombinant, expressed in HEK 293 cells, lyophilized powder, suitable for cell culture

5008
VitroCol®
Collagen from Human neonatal fibroblasts, 97% Type I with the remainder of Type III collagen, suitable for cell culture

5051
Vitronectin
from human plasma, suitable for cell culture, solution

V9881
Vitronectin from bovine plasma
lyophilized powder, BioReagent, suitable for cell culture

V8379
Vitronectin from human plasma
lyophilized powder, BioReagent, suitable for cell culture

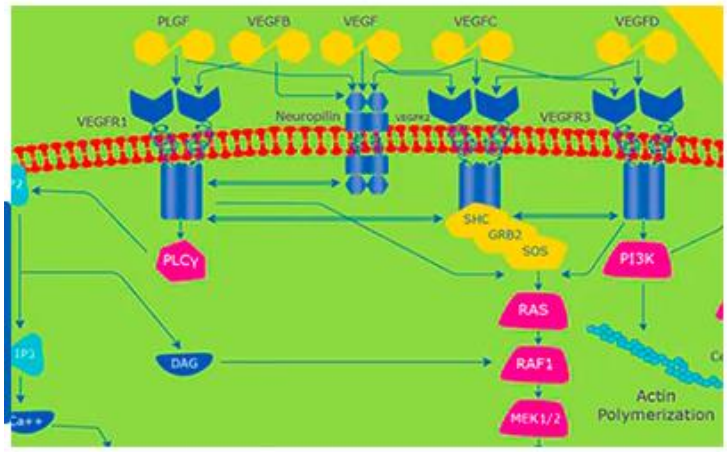
V0132
Vitronectin from rat plasma
lyophilized powder, BioReagent, suitable for cell culture

SRP3186
Vitronectin human
recombinant, expressed in HEK 293 cells, ≥95% (SDS-PAGE), ≥95% (HPLC), suitable for cell culture

CC080
Vitronectin, Human Purified Protein

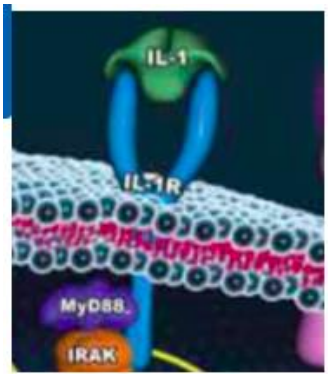
08-126
Vitronectin, human recombinant

Growth Factors and Cytokines



Cytokines and growth factors are chemical messengers that mediate intracellular communication to regulate cellular and nuclear functions. These soluble messengers bind cell surface receptors, which in turn initiate a transmembrane and intracellular cascade of events in the signal transduction process. Growth factor and cytokine receptors include many that are linked through G-proteins to membrane-bound phospholipase C (PLC) as well as protein tyrosine kinases (PTK). Activation of protein kinases catalyzes phosphorylation of other cellular proteins, which may orchestrate functional processes in the cell, or constitute one step in a protein kinase cascade that regulates nuclear events.

Growth Factors and Their Receptors
Cytokines
HumanKine® Growth Factors and Cytokines



IL-1(interleukin-1) is one of many proinflammatory cytokines used in cell culture models
Growth factors are typically classified into ‘families’ according to factors like functional characteristics, or the cell types and cellular processes they regulate. For example, epidermal growth factors (EGF), generally affect epithelial cell types, while platelet derived growth factors (PDGF) act principally on fibroblasts commonly found in connective tissues. Cytokines, often compared with growth factors, are a pivotal part of the signaling mechanism that orchestrates the immune response. Beyond immune activity, cytokines may direct cell proliferation, chemotaxis, and even apoptosis. Cytokines and growth factors are somewhat similar in their structure and mechanism of action in that both bind to specific cell surface receptors, and that they bind receptors that share distinct structural homologies.

Other growth factors, cytokines, and chemokines have been associated with cellular defects and the pathogenesis of diseases, which is not surprising given their critical functions in a wide variety of biological processes. We offer several inhibitors, agonists and antagonists for target identification and validation in drug discovery. Explore our high-quality recombinant proteins for growth factor and cytokine studies to achieve consistent cell signaling outcomes.

GROWTH FACTORS AND THEIR RECEPTORS

Growth factors that activate tyrosine kinase receptors include epidermal growth factor (EGF), fibroblast growth factors (FGF), platelet derived growth factor (PDGF), neurotrophins, vascular endothelial growth factor (VEGF), and insulin-like growth factor (IGF). The receptor tyrosine kinases activated by these ligands include:

- **EGF receptor (EGFR) –** Members of the epidermal growth factor family (which includes Her-2/ErbB-2) have been associated with proliferation of tumor cells, enhanced tumor survival, angiogenesis, and metastatic spread.
- **FGF receptors (FGFR) –** The fibroblast growth factor signaling pathway is involved in embryonic cell proliferation, migration, differentiation and survival. In an adult organism, FGFRs function in tissue repair and response to injury.
- **PDGF receptors (PDGFR) –** Platelet-derived growth factor receptors activate various enzymes, transcription factors, and adaptor molecules. PDGFs have important roles in embryonic development, wound healing, and regulation of interstitial fluid pressure in tissues.
- **Trk–** The tyrosine kinase family of cell surface proteins are tyrosine kinases that act as receptors for neurotrophins. Trks mediate neuronal survival, axon and dendritic growth, chemoattraction, and synaptic plasticity.
- **VEGF receptors (VEGFR) –** Members of the vascular endothelial growth factor receptor family are specific tyrosine kinase receptors that are involved in mediation of blood vascular endothelial cell proliferation, angiogenesis, vasculogenesis, and embryonic organization of vasculature.

CYTOKINES

Like growth factors, cytokines are soluble signaling molecules that induce or regulate essential biological processes. Beyond their roles in pro- and anti-inflammatory induction, cytokines may regulate activation, differentiation, proliferation, or migration in immune and nonimmune cell types.

HUMANKINE® GROWTH FACTORS AND CYTOKINES

We are proud to bring you HumanKine® growth factors and cytokines. These highly purified reagents are developed from an efficient human cell-based technology, and are excellent choices for your critical inflammation, cancer, stem cell, and antibody development research applications.

HumanKine® Growth Factors are:

- Produced in HEK 293 cells
- Recombinant and animal component-free for diverse applications
- Known to demonstrate authentic human glycosylation and post-translational modification patterns

A4362
Activin A active human
Animal-component free, recombinant, expressed in *Nicotiana*, >97% (SDS-PAGE)

SRP6057
Activin A from mouse
recombinant, expressed in *E. coli*, ≥95% (SDS-PAGE), ≥95% (HPLC)

SRP6153
Activin A human
recombinant, expressed in human cells, ≥95% (SDS-PAGE)

A4941
Activin A human
≥95% (SDS-PAGE), recombinant, expressed in baculovirus infected insect cells, lyophilized powder, suitable for cell culture

H4666
Activin A human
recombinant, expressed in HEK 293 cells, HumanKine®, suitable for cell culture

SRP3003
Activin A human
recombinant, expressed in *E. coli*, ≥97% (SDS-PAGE), ≥97% (HPLC), suitable for cell culture

GF300
Activin A Protein, Human Recombinant Animal Free
Activins, members of the TGF-beta superfamily, are disulfide-linked dimeric proteins purified from gonadal fluids as proteins that stimulated pituitary follicle stimulating hormone (FSH) release.

A1729
Activin B human
recombinant, expressed in CHO cells, suitable for cell culture

SRP4902
Adiponectin from mouse
recombinant, expressed in *E. coli*, ≥90% (SDS-PAGE)

SRP6257
ADIPOQ/Adiponectin/ACRP30 human
recombinant, expressed in HEK 293 cells, ≥92% (SDS-PAGE)

SRP6314
Alpha 2 Macroglobulin from human plasma
≥95% (SDS-PAGE)

A7080
Amphiregulin human
recombinant, expressed in *E. coli*, lyophilized powder, suitable for cell culture, ≥97% (SDS-PAGE)

E3789
Amphotericin B – Low Endotoxin
Less than 5 EU/mg, suitable for cell culture

GF164

ANG-1 Protein, Human Recombinant
The Ang-1 protein & Ang-2 protein are secreted ligands which bind with similar affinity to Tie2, a receptor tyrosine kinase with immunoglobulin & epidermal growth factor homology domains expressed on endothelial & early hematopoietic cells.

SRP6202
ANG-2 human
recombinant, expressed in CHO cells, ≥95% (SDS-PAGE)

GF165
ANG-2 Protein, Human Recombinant
Angiopoietin2 (Ang-2) is a secreted glycoprotein that plays a complex role in angiogenesis & inflammation.

A6955
Angiogenin human
≥97% (SDS-PAGE), recombinant, expressed in *E. coli*, lyophilized powder, suitable for cell culture

SRP3007
Angiopoietin-1 human
recombinant, expressed in HeLa cells, ≥95% (SDS-PAGE), ≥95% (HPLC), suitable for cell culture

A9847
Angiopoietin-2 human
>97% (SDS-PAGE), recombinant, expressed in NSO cells, lyophilized powder

I9885
Anti-Human IgG (γ-chain specific), F(ab')$_2$ fragment antibody produced in goat
affinity isolated antibody, lyophilized powder

E1388
β-Endothelial Cell Growth Factor human
β-ECGF, recombinant, expressed in *E. coli*, suitable for cell culture

B2929
B-Lymphocyte Chemoattractant human
≥95% (SDS-PAGE), recombinant, expressed in *E. coli*, lyophilized powder, suitable for cell culture

GF307
β-NGF Protein, Human Recombinant Animal Free
The Nerve Growth Factor is a well characterized neurotropic protein that plays a critical role in the development of sympathetic & some sensory neurons in the peripheral nervous system. Manufactured using all non-animal reagents.

B0939
BAFF active human
Animal-component free, recombinant, expressed in *Nicotiana*, >97% (SDS-PAGE)

SRP3305

BAFF human
Animal-component free, recombinant, expressed in *E. coli*, ≥98% (SDS-PAGE), ≥98% (HPLC)

GF136
BAFF Protein, Recombinant human
The Human BAFF protein (B-cell activating factor belonging to the TNF family) is a novel ligand in the TNF family.

GF318
BAFF, Human Recombinant
Animal Free

SRP3014
BDNF human
Carrier free, recombinant, expressed in *E. coli*, ≥95% (SDS-PAGE), suitable for cell culture

GF301
BDNF Protein, Human Recombinant Animal Free
The BDNF protein is a member of the NGF family of neurotrophic factors (also named neurotrophins) that are required for the differentiation & survival of specific neuronal subpopulations in both the central as well as the peripheral nervous system.

SRP3018
Beta -NGF human
Animal-component free, recombinant, expressed in *E. coli*, ≥98% (SDS-PAGE), ≥98% (HPLC), suitable for cell culture

SRP3015
Beta NGF human
recombinant, expressed in *E. coli*, ≥98% (SDS-PAGE), ≥98% (HPLC), suitable for cell culture

SRP3190
Betacellulin from mouse
recombinant, expressed in *E. coli*, ≥98% (SDS-PAGE), ≥98% (HPLC), suitable for cell culture

B3670
Betacellulin human
recombinant, expressed in *E. coli*, lyophilized powder, suitable for cell culture, ≥97% (SDS-PAGE)

SRP4639
BMP-13 human
recombinant, expressed in *E. coli*, ≥95% (SDS-PAGE)

SRP4580
BMP-14 (GDF-5/CDMP-1) human
recombinant, expressed in *E. coli*, ≥98% (SDS-PAGE), ≥98% (HPLC)

SRP6155
BMP-2 human

recombinant, expressed in HEK 293 cells, ≥95% (SDS-PAGE)

SRP3326
BMP-2 human
Animal-component free, recombinant, expressed in *E. coli*, ≥98% (SDS-PAGE), ≥98% (HPLC)

GF166
BMP-2 Protein, Human Recombinant
The Human Bone morphogenetic protein 2 (or BMP-2 protein) is a member of the BMP protein subgroup of the TGFβ superfamily.

GF319
BMP-2, Human Recombinant
Animal Free

SRP6156
BMP-4 human
recombinant, expressed in HEK 293 cells, ≥95% (SDS-PAGE)

SRP6156
BMP-4 human
recombinant, expressed in HEK 293 cells, ≥95% (SDS-PAGE)

SRP3298
BMP-4 mouse
recombinant, expressed in *E. coli*, ≥98% (SDS-PAGE), ≥98% (HPLC)

GF167
BMP-4 Protein, Human Recombinant
The Bone morphogenetic protein 4 (or BMP-4 protein) is a TGFβ superfamily ligand that is widely expressed from early embryogenesis through adulthood.

GF302
BMP-4 Protein, Human Recombinant Animal Free
Bone morphogenetic protein 4 (BMP4) is a TGFβ superfamily lig& that is widely expressed from early embryogenesis through adulthood. The Recombinant animal free human BMP-4 protein is manufactured using all non-animal reagents.

SRP3279
BMP-5 human
recombinant, expressed in CHO cells, ≥95% (SDS-PAGE), ≥95% (HPLC)

SRP3017
BMP-6 human
recombinant, expressed in HEK 293 cells, ≥95% (SDS-PAGE), ≥95% (HPLC), suitable for cell culture

GF168
BMP-6 Protein, Human Recombinant

The Bone Morphogenetic Protein 6 also known as Vgr-1 protein, is one of at least 15 structurally & functionally related BMPs which are members of the TGF-β superfamily.

B3555
Bone Morphogenetic Protein 2 human
≥98% (SDS-PAGE), recombinant, expressed in *E. coli*, lyophilized powder, suitable for cell culture

H4791
Bone Morphogenetic Protein 2 human
BMP-2, recombinant, expressed in HEK 293 cells, HumanKine, suitable for cell culture

B1814
Bone Morphogenetic Protein 2 human
Carrier Free, ≥98% (SDS-PAGE), recombinant, expressed in *E. coli*, lyophilized powder, suitable for cell culture

B2680
Bone Morphogenetic Protein 4 human
>95% (SDS-PAGE), recombinant, expressed in NSO cells, lyophilized powder, suitable for cell culture

H4916
Bone Morphogenetic Protein 4 human
BMP-4, recombinant, expressed in HEK 293 cells, HumanKine®, suitable for cell culture

B2805
Bone Morphogenetic Protein 6 human
>95% (SDS-PAGE), recombinant, expressed in NSO cells, lyophilized powder, suitable for cell culture

B1434
Bone Morphogenetic Protein 7 human
>95% (SDS-PAGE), recombinant, expressed in CHO cells, lyophilized powder, suitable for cell culture

B3795
Brain-derived neurotrophic factor human
BDNF, recombinant, expressed in *E. coli*, lyophilized powder, suitable for cell culture

SRP3193
Cardiotrophin-1 from mouse
recombinant, expressed in *E. coli*, ≥98% (SDS-PAGE), ≥98% (HPLC), suitable for cell culture

GF101
CD40 Ligand/TRAP Protein, Recombinant human
The CD40 Ligand (CD40L/TRAP protein) is a type II membrane protein which, effectuates the helper function of T cells on resting B cells.

5090
CDH18 human
recombinant, expressed in *E. coli*, 0.5 mg protein/mL

C3710
Ciliary Neurotrophic Factor human
CNTF, recombinant, expressed in *E. coli*, lyophilized powder, suitable for cell culture

SRP4702
CTGF human
recombinant, expressed in *E. coli*, ≥95% (SDS-PAGE), ≥95% (HPLC)

C8615
CXCL16 human
recombinant, expressed in *E. coli*, lyophilized powder, suitable for cell culture

H5041
Cystatin C human
recombinant, expressed in HEK 293 cells, HumanKine®, suitable for cell culture

D6140
Demeclocycline hydrochloride
powder or crystals

SCR128
Dopaminergic Differentiation Growth Factor Sampler
This Dopaminergic Differentiation Growth Factor Sampler contains five validated growth factors used to induce differentiation of human pluripotent Embryonic stem (ES) & induced pluripotent Stem (iPS) cells to dopaminergic neurons.

SRP3029
EG-VEGF human
recombinant, expressed in *E. coli*, ≥98% (SDS-PAGE), ≥98% (HPLC), suitable for cell culture

SRP3329
EGF from mouse
Animal-component free, recombinant, expressed in *E. coli*, ≥98% (SDS-PAGE), ≥98% (HPLC)

SRP3196
EGF from mouse
recombinant, expressed in *E. coli*, ≥98% (SDS-PAGE), ≥98% (HPLC), suitable for cell culture

SRP3238
EGF from rat
recombinant, expressed in *E. coli*, ≥98% (SDS-PAGE), ≥98% (HPLC), suitable for cell culture

SRP3027
EGF human
Animal-component free, recombinant, expressed in *E. coli*, ≥98% (SDS-PAGE), ≥98% (HPLC), suitable for cell culture

GF316

EGF Protein, Human Recombinant Animal Free
This Recombinant animal free human EGF is manufactured using all non-animal reagents.

GF171
Endostatin Protein, Human Recombinant
The Endostatin protein is a naturally occurring 20 kDa polypeptide derived from the C-terminal portion of type XVIII collagen.

E2759
Endothelial cell growth supplement from bovine neural tissue
ECGS, suitable for cell culture

E0760
Endothelial cell growth supplement from bovine pituitary
ECGS, suitable for cell culture, BioReagent

E8399
Eotaxin-3 human
>97% (SDS-PAGE), recombinant, expressed in *E. coli*, lyophilized powder, suitable for cell culture

E5160
Epidermal Growth Factor from mouse
EGF

E1257
Epidermal Growth Factor from murine submaxillary gland
lyophilized powder, BioReagent, suitable for cell culture

E4127
Epidermal Growth Factor from murine submaxillary gland
EGF, suitable for cell culture

GF144
Epidermal Growth Factor Protein, Human recombinant
The Epidermal Growth Factor (EGF) is a polypeptide growth factor which stimulates the proliferation of a wide range of epidermal & epithelial cells.

GF155
Epidermal Growth Factor Protein, Recombinant mouse
The Epidermal Growth Factor (EGF) is a polypeptide growth factor, which stimulates the proliferation of a wide range of epidermal & epithelial cells.

E3641
Epidermal Growth Factor Receptor human
buffered aqueous glycerol solution, 5,000-30,000 units/mg protein (Lowry)

E2645
Epidermal Growth Factor Receptor human

lyophilized powder, ≥15,000 units/mg protein (Bradford)

E5036
Epidermal Growth Factor, human, animal component free
EGF, recombinant, expressed in Escherichia coli, >97% (SDS-PAGE)

SRP3033
Epiregulin human
recombinant, expressed in *E. coli*, ≥98% (SDS-PAGE), ≥98% (HPLC), suitable for cell culture

SRP6158
EPO human
recombinant, expressed in HEK 293 cells, ≥95% (SDS-PAGE)

E5546
Erythropoietin (EPO) human
recombinant, expressed in HEK 293 cells, suitable for cell culture

E9530
Erythropoietin from mouse
recombinant, expressed in NSO cells, ≥90% (SDS-PAGE), lyophilized powder, suitable for cell culture

H5166
Erythropoietin human
EPO, recombinant, expressed in HEK 293 cells, suitable for cell culture

SRP2091
FGF-1 human
recombinant, expressed in insect cells, ≥85% (SDS-PAGE)

GF172
FGF-10 Protein, Human Recombinant, 25µg
The Fibroblast Growth Factors (FGFs) are heparin binding glycoproteins that exert a variety of biological activities toward cells of mesenchymal, neuronal & epithelial origin.

SRP3038
FGF-16 human
recombinant, expressed in *E. coli*, ≥95% (SDS-PAGE), ≥95% (HPLC), suitable for cell culture

01-106
FGF-2 / basic FGF Protein, Human recombinant
The FGF-2 / basic FGF Protein, Human recombinant is available in a 25 µg format.

SRP4039
Fgf-2 from rat
recombinant, expressed in *E. coli*, ≥97% (SDS-PAGE), ≥97% (HPLC)

SRP2092
FGF-2 human
recombinant, expressed in insect cells, ≥85% (SDS-PAGE)

SRP4037
FGF-2 human
recombinant, expressed in *E. coli*, ≥95% (SDS-PAGE), ≥95% (HPLC)

SRP3039
FGF-23 human
recombinant, expressed in *E. coli*, ≥95% (SDS-PAGE), ≥95% (HPLC), suitable for cell culture

SRP3261
FGF-4 human
Animal-component free, recombinant, expressed in *E. coli*, ≥95% (SDS-PAGE), ≥95% (HPLC)

SRP6160
FGF-4 human
recombinant, expressed in human cells, ≥95% (SDS-PAGE)

SRP3040
FGF-9 human
recombinant, expressed in *E. coli*, ≥95% (SDS-PAGE), ≥95% (HPLC), suitable for cell culture

SRP3197
FGF-acidic from mouse
recombinant, expressed in *E. coli*, ≥95% (SDS-PAGE), ≥95% (HPLC), suitable for cell culture

SRP3042
FGF-acidic human
Animal-component free, recombinant, expressed in *E. coli*, ≥95% (SDS-PAGE), ≥95% (HPLC), suitable for cell culture

GF321
FGF-acidic, Human Recombinant
Animal Free

SRP3043
FGF-basic human
Animal-component free, recombinant, expressed in *E. coli*, ≥95% (SDS-PAGE), ≥95% (HPLC), suitable for cell culture

GF003
Fibroblast Growth Factor basic Protein, Human recombinant

GF003AF
Fibroblast Growth Factor basic, human recombinant, animal-free
The Fibroblast Growth Factor-basic (or bFGF protein) is a heparin binding growth factor which stimulates the proliferation of a wide variety of cells including mesenchymal, neuroectodermal & endothelial cells.

F3133
Fibroblast Growth Factor from bovine pituitary
suitable for cell culture

F8924
Fibroblast Growth Factor-10 human
>97% (SDS-PAGE), recombinant, expressed in *E. coli*, lyophilized powder, suitable for cell culture

F7301
Fibroblast Growth Factor-18 human
>95% (SDS-PAGE and HPLC), recombinant, expressed in *E. coli*, lyophilized powder

F8424
Fibroblast Growth Factor-4 human
FGF-4, recombinant, expressed in *E. coli*, lyophilized powder, suitable for cell culture

F4537
Fibroblast Growth Factor-5 human
recombinant, expressed in *E. coli*, lyophilized powder, suitable for cell culture, ≥97% (SDS-PAGE and N-terminal analysis)

F6926
Fibroblast Growth Factor-8b from mouse
>97% (SDS-PAGE), recombinant, expressed in *E. coli*, lyophilized powder

F1168
Fibroblast Growth Factor-9 human
recombinant, expressed in baculovirus infected *Sf*21 cells, lyophilized powder, suitable for cell culture, ≥97% (SDS-PAGE)

F5542
Fibroblast Growth Factor-Acidic human
FGF-Acidic, recombinant, expressed in *E. coli*, suitable for cell culture

F3685
Fibroblast Growth Factor-Basic
FGF-Basic, from human, recombinant, expressed in *E. coli*, carrier free

F5392
Fibroblast Growth Factor-Basic from bovine pituitary
FGF-Basic, suitable for cell culture

F9786
Fibroblast Growth Factor-Basic Heparin Stabilized human
FGF-Basic, recombinant, expressed in *E. coli*, sterile-filtered, aqueous solution, suitable for cell culture

H5416
FLT3 Ligand human
recombinant, expressed in HEK 293 cells, HumanKine®, suitable for cell culture

SRP3331
G-CSF from mouse
Animal-component free, recombinant, expressed in *E. coli*, ≥98% (SDS-PAGE), ≥98% (HPLC)

SRP3263
G-CSF human
Animal-component free, recombinant, expressed in *E. coli*, ≥98% (SDS-PAGE), ≥98% (HPLC)

GF303
G-CSF Protein, Human Recombinant Animal Free
The GCSF protein is a pleiotropic cytokine best known for its specific effects on the proliferation, differentiation & activation of hematopoietic cells of the neutrophilic granulocyte lineage. Manufactured using all non-animal reagents.

SRP3049
GDF-2 human
recombinant, expressed in CHO cells, ≥95% (SDS-PAGE), ≥95% (HPLC), suitable for cell culture

SRP4757
GDF-3 human
recombinant, expressed in *E. coli*, ≥98% (SDS-PAGE), ≥98% (HPLC)

SRP3299
GDF-5 mouse
recombinant, expressed in *E. coli*, ≥98% (SDS-PAGE), ≥98% (HPLC)

SRP3200
GDNF from mouse
recombinant, expressed in *E. coli*, ≥98% (SDS-PAGE), ≥98% (HPLC), suitable for cell culture

SRP3239
GDNF from rat
recombinant, expressed in *E. coli*, ≥98% (SDS-PAGE), ≥98% (HPLC), suitable for cell culture

SRP3309
GDNF human
Animal-component free, recombinant, expressed in *E. coli*, ≥98% (SDS-PAGE), ≥98% (HPLC)

GF322
GDNF, Human Recombinant
Animal Free

G1401
Glial Cell Line-derived Neurotrophic Factor from rat

recombinant, expressed in baculovirus infected *Sf*21 cells, lyophilized powder, suitable for cell culture, ≥97% (SDS-PAGE)

G1777
Glial Cell Line-derived Neurotrophic Factor human
recombinant, expressed in *E. coli*, lyophilized powder, suitable for cell culture, ≥98% (SDS-PAGE)

SRP3201
GM-CSF from mouse
Animal-component free, recombinant, expressed in *E. coli*, ≥98% (SDS-PAGE), ≥98% (HPLC), suitable for cell culture

GF304
GM-CSF Protein, Human Recombinant Animal Free
The GM-CSF protein was initially characterized as a factor that can support the in vitro colony formation of granulocyte macrophage progenitors. The Recombinant animal free human GM-CSF is manufactured using all non-animal reagents.

SRP3271
GM-CSF rat
Animal-component free, recombinant, expressed in *E. coli*, ≥98% (SDS-PAGE), ≥98% (HPLC)

G8160
Granulocyte Colony-Stimulating Factor from mouse
G-CSF, recombinant, expressed in *E. coli*, suitable for cell culture

G0407
Granulocyte colony-stimulating factor human
G-CSF, recombinant, expressed in *E. coli*, suitable for cell culture

G0282
Granulocyte-Macrophage Colony-Stimulating Factor from mouse
GM-CSF, from mouse, recombinant, expressed in *E. coli*, lyophilized powder, suitable for cell culture

G0792
Granulocyte-Macrophage Colony-Stimulating Factor from rat
GM-CSF, recombinant, expressed in *E. coli*

G5035
Granulocyte-Macrophage Colony-Stimulating Factor human
GM-CSF, recombinant, expressed in *E. coli*, suitable for cell culture

H5666
Granulocyte-Macrophage Colony-Stimulating Factor human
GM-CSF, recombinant, expressed in HEK 293 cells, HumanKine®, suitable for cell culture

SRP3050
Granulocyte-Macrophage Colony-Stimulating Factor human

GM-CSF, Animal-component free, recombinant, expressed in *E. coli*, suitable for cell culture

SRP3240
GRO/KC (CXCL1) from rat
recombinant, expressed in *E. coli*, ≥98% (SDS-PAGE), ≥98% (HPLC), suitable for cell culture

G0657
GROα human
≥97% (SDS-PAGE), recombinant, expressed in *E. coli*, lyophilized powder, suitable for cell culture

SRP6050
HB-EGF from mouse
recombinant, expressed in *E. coli*, ≥95% (SDS-PAGE), ≥95% (HPLC)

F0291
hBFGF
FGF-Basic, recombinant, expressed in *E. coli*, suitable for cell culture

E9644
hEGF
EGF, recombinant, expressed in *E. coli*, lyophilized powder, suitable for cell culture

E4643
Heparin-Binding EGF-Like Growth Factor human
HB-EGF, recombinant, expressed in baculovirus infected *Sf*21 cells, lyophilized powder, suitable for cell culture

H1404
Hepatocyte Growth Factor human
HGF, recombinant, expressed in *Baculovirus* infected High-5 cells, suitable for cell culture

H5791
Hepatocyte Growth Factor human
HGF, recombinant, expressed in HEK 293 cells, HumanKine®, suitable for cell culture

H9661
Hepatocyte Growth Factor human
HGF, recombinant, expressed in NSO cells, suitable for cell culture

GF116
Hepatocyte Growth Factor Protein, Recombinant human
The Human Hepatocyte Growth Factor (or HGF protein) is also known as Scatter Factor & Hepatopoeitin A.

H0536
Hepatocyte Growth Factor Receptor (c-Met)/Fc Chimera human
>95% (SDS-PAGE), recombinant, expressed in NSO cells, lyophilized powder

SRP3055
Heregulin beta -1 human

Animal-component free, recombinant, expressed in *E. coli*, ≥98% (SDS-PAGE), ≥98% (HPLC), suitable for cell culture

H5529
Heregulin-α, EGF Domain human
recombinant, expressed in *E. coli*, lyophilized powder, suitable for cell culture, ≥97% (SDS-PAGE)

H0786
Heregulin-β, EGF Domain human
≥80% (SDS-PAGE), recombinant, expressed in *E. coli*, buffered aqueous glycerol solution

H7660
Heregulin-β1 (EGF Domain) human
≥98% (SDS-PAGE), recombinant, expressed in *E. coli*, lyophilized powder

01-201
Heregulin-β3, Epidermal growth factor (EGF) domain
The Heregulin-β3 protein, Epidermal growth factor (EGF) domain is available in a 100 µg format.

SRP6014
HGF human
recombinant, expressed in CHO cells, ≥97% (SDS-PAGE), ≥97% (HPLC)

SRP3300
HGF mouse
recombinant, expressed in Hi-5 Insect cells, ≥95% (SDS-PAGE), ≥95% (HPLC)

SRP6167
HGH human
recombinant, expressed in HEK 293 cells, ≥95% (SDS-PAGE)

H5916
Human Growth Hormone human
HGH, recombinant, expressed in HEK 293 cells, HumanKine®, suitable for cell culture

CC065
Human Tenascin-C Purified Protein

GF446
HumanKine® Thermostable bFGF,
Human Recombinant
Engineered bFGF growth factor with enchanced thermostability compared to the wild-type bFGF protein. Allows a less vigorous feeding schedule for human es/ips and neural stem cell culture.

GF305
IFN- γ Protein, Human Recombinant Animal Free
The Interferon gamma (or IFN-γ protein) is an acid-labile interferon produced by CD4 & CD8 T lymphocytes as well as activated NK cells. Manufactured using all non-animal reagents.

SRP4596
IFN-alpha 1 human
recombinant, expressed in *E. coli*, ≥95% (SDS-PAGE), ≥95% (HPLC)

SRP3058
IFN-γ human
Animal-component free, recombinant, expressed in *E. coli*, ≥98% (SDS-PAGE), ≥98% (HPLC), suitable for cell culture

SRP3203
IFN-lambda 2 from mouse
recombinant, expressed in *E. coli*, ≥98% (SDS-PAGE), ≥98% (HPLC), suitable for cell culture

SRP3060
IFN-lambda 2 human
recombinant, expressed in *E. coli*, ≥98% (SDS-PAGE), ≥98% (HPLC), suitable for cell culture

SRP3273
IFN-LAMBDA1 human
Animal-component free, recombinant, expressed in *E. coli*, ≥98% (SDS-PAGE), ≥98% (HPLC)

SRP6291
IFN-ω human
recombinant, expressed in HEK 293 cells, ≥93% (SDS-PAGE)

SRP3061
IFN-omega human
recombinant, expressed in *E. coli*, ≥98% (SDS-PAGE), ≥98% (HPLC), suitable for cell culture

SRP4121
IGF-I from rat
recombinant, expressed in *E. coli*, ≥95% (SDS-PAGE), ≥95% (HPLC)

SRP3069
IGF-I human
Animal-component free, recombinant, expressed in *E. coli*, suitable for cell culture

GF306
IGF-I Protein, Human Recombinant Animal Free
The Insulin-like growth factor I protein(or IGF-1 protein), also known as somatomedin C, is the dominant effector of growth hormone & is structurally homologous to proinsulin. Manufactured using all non-animal reagents.

SRP3070
IGF-II human
recombinant, expressed in *E. coli*, ≥98% (SDS-PAGE), ≥98% (HPLC), suitable for cell culture

GF323
IGF-II, Human Recombinant
Animal Free

SRP6551
IL 17 A/F from rat
recombinant, expressed in *E. coli*, ≥98% (SDS-PAGE)

SRP3083
IL-1 beta human
Animal-component free, recombinant, expressed in *E. coli*, ≥98% (SDS-PAGE), ≥98% (HPLC), suitable for cell culture

GF324
IL-1 Receptor Antagonist,
Human Recombinant Animal Free

SRP3071
IL-10 human
recombinant, expressed in *E. coli*, ≥98% (SDS-PAGE), ≥98% (HPLC), suitable for cell culture

SRP3312
IL-10 human
Animal-component free, recombinant, expressed in *E. coli*, ≥98% (SDS-PAGE), ≥98% (HPLC)

GF325
IL-10,
Human Recombinant Animal Free

SRP3072
IL-11 human
recombinant, expressed in *E. coli*, ≥98% (SDS-PAGE), ≥98% (HPLC), suitable for cell culture

SRP3204
IL-12 from mouse
recombinant, expressed in CHO cells, ≥98% (SDS-PAGE), ≥98% (HPLC), suitable for cell culture

SRP3073
IL-12 human
recombinant, expressed in CHO cells, ≥98% (SDS-PAGE), ≥98% (HPLC), suitable for cell culture

SRP3075
IL-12p80 human
recombinant, expressed in (BTI-Tn-5B1-4) High-5 Insect Cells, ≥95% (SDS-PAGE), ≥95% (HPLC), suitable for cell culture

SRP4166
IL-13 from rat
recombinant, expressed in *E. coli*, ≥95% (SDS-PAGE), ≥95% (HPLC)

SRP3274
IL-13 human
Animal-component free, recombinant, expressed in *E. coli*, ≥98% (SDS-PAGE), ≥98% (HPLC)

SRP3241
IL-13 Long Form from rat
recombinant, expressed in *E. coli*, ≥98% (SDS-PAGE), ≥98% (HPLC), suitable for cell culture

SRP3076
IL-13 Variant human
recombinant, expressed in *E. coli*, ≥98% (SDS-PAGE), ≥98% (HPLC), suitable for cell culture

GF326
IL-13,
Human Recombinant Animal Free

SRP4171
IL-15 from mouse
recombinant, expressed in *E. coli*, ≥98% (SDS-PAGE), ≥98% (HPLC)

SRP3077
IL-15 human
Animal-component free, recombinant, expressed in *E. coli*, ≥98% (SDS-PAGE), ≥98% (HPLC), suitable for cell culture

GF327
IL-15,
Human Recombinant Animal Free

SRP3078
IL-16 (121aa) human
recombinant, expressed in *E. coli*, ≥98% (SDS-PAGE), ≥98% (HPLC), suitable for cell culture

SRP3079
IL-16 human
Animal-component free, recombinant, expressed in *E. coli*, ≥98% (SDS-PAGE), ≥98% (HPLC), suitable for cell culture

SRP3080
IL-17 human
Animal-component free, recombinant, expressed in *E. coli*, ≥98% (SDS-PAGE), ≥98% (HPLC), suitable for cell culture

GF328
IL-17,
Human Recombinant Animal Free

SRP3081
IL-17B human
recombinant, expressed in *E. coli*, ≥98% (SDS-PAGE), ≥98% (HPLC), suitable for cell culture

SRP3082
IL-17D human
recombinant, expressed in *E. coli*, ≥98% (SDS-PAGE), ≥98% (HPLC), suitable for cell culture

SRP3313
IL-17E human
Animal-component free, recombinant, expressed in *E. coli*, ≥98% (SDS-PAGE), ≥98% (HPLC)

GF329
IL-17E,
Human Recombinant Animal Free

SRP3206
IL-17F from mouse
recombinant, expressed in *E. coli*, ≥98% (SDS-PAGE), ≥98% (HPLC), suitable for cell culture

GF330
IL-1α,
Human Recombinant Animal Free

SRP3310
IL-1ALPHA human
Animal-component free, recombinant, expressed in *E. coli*, ≥98% (SDS-PAGE), ≥98% (HPLC)

SRP8033
IL-1β mouse
recombinant, expressed in *E. coli*, untagged, >95% (SDS-PAGE)

GF331
IL-1β,
Human Recombinant Animal Free

SRP3242
IL-2 from rat
recombinant, expressed in *E. coli*, ≥98% (SDS-PAGE), ≥98% (HPLC), suitable for cell culture

GF333
IL-2,
Human Recombinant Animal Free

SRP3088
IL-21 human
Animal-component free, recombinant, expressed in *E. coli*, ≥98% (SDS-PAGE), ≥98% (HPLC), suitable for cell culture

SRP3087
IL-21 human
recombinant, expressed in *E. coli*, ≥98% (SDS-PAGE), ≥98% (HPLC), suitable for cell culture

SRP3207
IL-22 from mouse
recombinant, expressed in *E. coli*, ≥98% (SDS-PAGE), ≥98% (HPLC), suitable for cell culture

SRP3314
IL-22 human
Animal-component free, recombinant, expressed in *E. coli*, ≥98% (SDS-PAGE), ≥98% (HPLC)

SRP3089
IL-22 human
recombinant, expressed in *E. coli*, ≥98% (SDS-PAGE), ≥98% (HPLC), suitable for cell culture

GF334
IL-22,
Human Recombinant Animal Free

SRP4975
IL-24 human
recombinant, expressed in *Saccharomyces cerevisiae*, ≥98% (SDS-PAGE), ≥98% (HPLC)

SRP3286
IL-24 human
recombinant, expressed in CHO cells, ≥95% (SDS-PAGE), ≥95% (HPLC)

SRP3243
IL-3 beta from rat
recombinant, expressed in *E. coli*, ≥98% (SDS-PAGE), ≥98% (HPLC), suitable for cell culture

I5286
IL-3 from mouse
Carrier free, recombinant, expressed in *E. coli*, ≥98% (SDS-PAGE), suitable for cell culture

SRP3208
IL-3 from mouse
Animal-component free, recombinant, expressed in *E. coli*, ≥98% (SDS-PAGE), ≥98% (HPLC), suitable for cell culture

SRP4135
IL-3 from mouse
recombinant, expressed in *E. coli*, ≥98% (SDS-PAGE), ≥98% (HPLC)

SRP4134

IL-3 human
recombinant, expressed in *E. coli*, ≥98% (SDS-PAGE), ≥98% (HPLC)

SRP3090
IL-3 human
Animal-component free, recombinant, expressed in *E. coli*, ≥98% (SDS-PAGE), ≥98% (HPLC), suitable for cell culture

GF335
IL-3,
Human Recombinant Animal Free

SRP3209
IL-31 from mouse
recombinant, expressed in *E. coli*, ≥98% (SDS-PAGE), ≥98% (HPLC), suitable for cell culture

SRP3091
IL-31 human
recombinant, expressed in *E. coli*, ≥98% (SDS-PAGE), ≥98% (HPLC), suitable for cell culture

SRP3210
IL-33 from mouse
recombinant, expressed in *E. coli*, ≥98% (SDS-PAGE), ≥98% (HPLC), suitable for cell culture

SRP4193
IL-33 human
recombinant, expressed in *E. coli*, ≥98% (SDS-PAGE), ≥98% (HPLC)

GF336
IL-33,
Human Recombinant Animal Free

SRP3287
IL-34 human
recombinant, expressed in HEK 293 cells, ≥95% (SDS-PAGE), ≥95% (HPLC)

SRP3288
IL-36 BETA human
recombinant, expressed in *E. coli*, ≥98% (SDS-PAGE), ≥98% (HPLC)

SRP3289
IL-36 GAMMA human
recombinant, expressed in *E. coli*, ≥95% (SDS-PAGE), ≥95% (HPLC)

SRP8035
IL-36α mouse
recombinant, expressed in *E. coli*, untagged, >95% (SDS-PAGE)

SRP6199
IL-36β human
recombinant, expressed in *E. coli*, ≥98% (SDS-PAGE)

SRP8036
IL-36β mouse
recombinant, expressed in *E. coli*, untagged, >95% (SDS-PAGE)

SRP8037
IL-36γ mouse
recombinant, expressed in *E. coli*, untagged, >95% (SDS-PAGE)

SRP8038
IL-38 mouse
recombinant, expressed in *E. coli*, FLAG® tagged, >95% (SDS-PAGE)

SRP3211
IL-4 from mouse
Animal-component free, recombinant, expressed in *E. coli*, ≥98% (SDS-PAGE), ≥98% (HPLC), suitable for cell culture

SRP3093
IL-4 human
Animal-component free, recombinant, expressed in *E. coli*, ≥98% (SDS-PAGE), ≥98% (HPLC), suitable for cell culture

SRP4137
IL-4 human
recombinant, expressed in *E. coli*, ≥98% (SDS-PAGE), ≥98% (HPLC)

GF337
IL-4,
Human Recombinant Animal Free

SRP3212
IL-5 from mouse
recombinant, expressed in *E. coli*, ≥98% (SDS-PAGE), ≥98% (HPLC), suitable for cell culture

SRP3095
IL-5 human
recombinant, expressed in *E. coli*, ≥98% (SDS-PAGE), ≥98% (HPLC), suitable for cell culture

SRP3330
IL-6 from mouse
Animal-component free, recombinant, expressed in *E. coli*, ≥98% (SDS-PAGE), ≥98% (HPLC)

SRP4145
IL-6 from rat
recombinant, expressed in *E. coli*, ≥90% (SDS-PAGE), ≥90% (HPLC)

GF338
IL-6,
Human Recombinant Animal Free

SRP3244
IL-7 from rat
recombinant, expressed in *E. coli*, ≥98% (SDS-PAGE), ≥98% (HPLC), suitable for cell culture

SRP3266
IL-7 human
Animal-component free, recombinant, expressed in *E. coli*, ≥98% (SDS-PAGE), ≥98% (HPLC)

SRP3311
IL-8 (72AA) human
Animal-component free, recombinant, expressed in *E. coli*, ≥98% (SDS-PAGE), ≥98% (HPLC)

SRP3098
IL-8 (77aa) (CXCL8) human
recombinant, expressed in *E. coli*, ≥98% (SDS-PAGE), ≥98% (HPLC), suitable for cell culture

SRP3213
IL-9 from mouse
recombinant, expressed in *E. coli*, ≥98% (SDS-PAGE), ≥98% (HPLC), suitable for cell culture

SRP3245
IL-9 from rat
recombinant, expressed in *E. coli*, ≥98% (SDS-PAGE), ≥98% (HPLC), suitable for cell culture

SRP3328
IL-9 human
Animal-component free, recombinant, expressed in *E. coli*, ≥98% (SDS-PAGE), ≥98% (HPLC)

SRP3099
IL-9 human
recombinant, expressed in *E. coli*, ≥98% (SDS-PAGE), ≥98% (HPLC), suitable for cell culture

GF340
IL-9,
Human Recombinant Animal Free

I1288
IL28β human
recombinant, expressed in HEK 293 cells, suitable for cell culture

I8779
Insulin-like Growth Factor-I from mouse

IGF-I, recombinant, expressed in *E. coli*, lyophilized powder, suitable for cell culture

I3769
Insulin-like Growth Factor-I human
IGF-I, recombinant, expressed in *E. coli*, lyophilized powder, suitable for cell culture

I4657
Insulin-like Growth Factor-I Receptor human
≥95% (SDS-PAGE), recombinant, expressed in NSO cells, lyophilized powder

I8904
Insulin-like Growth Factor-II from mouse
IGF-II, recombinant, expressed in *E. coli*, lyophilized powder

I2526
Insulin-like Growth Factor-II human
IGF-II, recombinant, expressed in *E. coli*, lyophilized powder, suitable for cell culture

H6041
Interferon α 2A human
IFN-α 2A, recombinant, expressed in HEK 293 cells, HumanKine®, suitable for cell culture

H6166
Interferon α 2B human
IFN-α 2B, recombinant, expressed in HEK 293 cells, HumanKine®, suitable for cell culture

I8657
Interferon α from rat
≥95%, recombinant, expressed in bacteria, lyophilized powder, suitable for cell culture

I8782
Interferon αA from mouse
≥95%, recombinant, expressed in *E. coli*, buffered aqueous solution, suitable for cell culture

I9032
Interferon β from mouse
≥95%, recombinant, expressed in *E. coli*, buffered aqueous solution, suitable for cell culture

I8907
Interferon β from rat
≥95%, recombinant, expressed in CHO cells, lyophilized powder, suitable for cell culture

IF007
Interferon-α A Protein, Recombinant human
Purified Recombinant Human Interferon Alpha A (Hu-IFN-alphaA & Hu-IFN-alpha2a).

IF009
Interferon-α A Protein, Recombinant mouse

Interferon-α A Protein, Recombinant mouse.

I4276
Interferon-αA human
≥95%, suitable for cell culture, buffered aqueous solution, recombinant, expressed in *E. coli*

I4401
Interferon-αA/D human
≥95%, recombinant, expressed in *E. coli*, buffered aqueous solution, suitable for cell culture

IF014
Interferon-β Protein, Recombinant human
Recombinant Human Interferon Beta 1a (Hu-IFNbeta 1a).

IF011
Interferon-β Protein, Recombinant mouse
Interferon-β Protein, Recombinant mouse.

I4777
Interferon-γ from mouse
≥98% (SDS-PAGE), recombinant, expressed in *E. coli*, lyophilized powder, suitable for cell culture

I3275
Interferon-γ from rat
≥97% (SDS-PAGE), recombinant, expressed in *E. coli*, lyophilized powder, suitable for cell culture

I3265
Interferon-γ human
recombinant, expressed in *E. coli*, ≥98% (SDS-PAGE), lyophilized powder, suitable for cell culture

I17001
Interferon-γ human
IFN-gamma, recombinant, expressed in HEK 293 cells, suitable for cell culture, endotoxin tested

IF002
Interferon-γ Protein, Recombinant human
The Interferon-g protein (or IFN-gamma protein) is a lymphoid factor which possesses potent anti-viral activity.

IF005
Interferon-γ Protein, Recombinant mouse
The Interferon-gamma protein (or IFN-gamma protein) is a regulatory protein produced by activated NK cells & CD4+TCRalpha/beta+, CD8+TCRalpha/beta+ & TCRgamma/delta+ T cells.

SRP3059
Interferon-λ human
recombinant, expressed in *E. coli*, ≥98% (SDS-PAGE), ≥98% (HPLC), suitable for cell culture

I3019
Interleukin-10 from mouse
>97% (SDS-PAGE), recombinant, expressed in *E. coli*, suitable for cell culture

I9154
Interleukin-10 from rat
>95% (SDS-PAGE), recombinant, expressed in *E. coli*, lyophilized powder

I9276
Interleukin-10 human
≥97% (SDS-PAGE), recombinant, expressed in baculovirus infected *Sf*21 cells, lyophilized powder, suitable for cell culture

H7541
Interleukin-10 human
IL-10, recombinant, expressed in HEK 293 cells, HumanKine®, suitable for cell culture

I2406
Interleukin-11 human
>97% (SDS-PAGE), recombinant, expressed in baculovirus infected *Sf*21 cells, lyophilized powder, suitable for cell culture

I8523
Interleukin-12 from mouse
≥97% (SDS-PAGE), recombinant, expressed in baculovirus infected *Sf*21 cells, lyophilized powder, suitable for cell culture

I2276
Interleukin-12 human
≥97% (SDS-PAGE and N-terminal analysis), recombinant, expressed in baculovirus infected *Sf*21 cells, lyophilized powder, suitable for cell culture

H7666
Interleukin-12 human
HumanKine®, recombinant, expressed in HEK 293 cells, suitable for cell culture, endotoxin, tested

IL029
Interleukin-12 Protein, Recombinant human
The recombinant human Interleukin-12 protein (or IL-12 protein) is a potent regulator of cell mediated immune responses & it induces IFN-gamma production by NK & T cells.

I1896
Interleukin-13 from mouse
≥97% (SDS-PAGE), recombinant, expressed in *E. coli*, lyophilized powder, suitable for cell culture

I1771
Interleukin-13 human
≥97% (SDS-PAGE), recombinant, expressed in *E. coli*, lyophilized powder, suitable for cell culture

I8648
Interleukin-15 human
>97% (SDS-PAGE), recombinant, expressed in *E. coli*, lyophilized powder, suitable for cell culture

I4026
Interleukin-17 from mouse
≥97% (SDS-PAGE), recombinant, expressed in *E. coli*, lyophilized powder, suitable for cell culture

I3525
Interleukin-17A human
≥98% (SDS-PAGE), recombinant, expressed in *E. coli*, lyophilized powder, suitable for cell culture

H7791
Interleukin-17A human
IL-17A, recombinant, expressed in HEK 293 cells, HumanKine®, suitable for cell culture

H7916
Interleukin-17F human
HumanKine®, recombinant, expressed in HEK 293 cells, suitable for cell culture, endotoxin, tested

I0531
Interleukin-18 from rat
>97% (SDS-PAGE), recombinant, expressed in *E. coli*, lyophilized powder

I5396
Interleukin-1α from mouse
IL-1α, recombinant, expressed in *E. coli*, lyophilized powder, suitable for cell culture

I3901
Interleukin-1α from rat
IL-1α, recombinant, expressed in *E. coli*, lyophilized powder, suitable for cell culture

I2778
Interleukin-1α human
IL-1α, recombinant, expressed in *E. coli*, lyophilized powder, suitable for cell culture

I5271
Interleukin-1β from mouse
IL-1β, recombinant, expressed in *E. coli*, lyophilized powder, suitable for cell culture

I2393
Interleukin-1β from rat
IL-1β, recombinant, expressed in *E. coli*, lyophilized powder, suitable for cell culture

H6291
Interleukin-1β human
IL-1β, recombinant, expressed in HEK 293 cells, HumanKine®, suitable for cell culture, endotoxin tested

IL038
Interleukin-1β Protein, Recombinant human
The recombinant human Interleukin-1beta protein (or IL-1beta protein) is a potent immuno-modulator which mediates a wide range of immune & inflammatory responses including the activation of B & T-cells.

I0523
Interleukin-2 from mouse
IL-2, recombinant, expressed in *E. coli*, lyophilized powder, suitable for cell culture

I4161
Interleukin-2 from mouse
IL-2, recombinant, expressed in *E. coli*, carrier free

57600
Interleukin-2 human
recombinant, expressed in *E. coli*, ~10000 U/mL

I7908
Interleukin-2 human
recombinant, expressed in *Pichia pastoris*, suitable for cell culture

I2644
Interleukin-2 human
IL-2, recombinant, expressed in *E. coli*, lyophilized powder, suitable for cell culture

H7041
Interleukin-2 human
IL-2, recombinant, expressed in HEK 293 cells, suitable for cell culture, endotoxin tested

SRP3085
Interleukin-2, human
Animal-component free, recombinant, expressed in *E. coli*, suitable for cell culture

I4032
Interleukin-21 from mouse
≥97% (SDS-PAGE), recombinant, expressed in *E. coli*, lyophilized powder, suitable for cell culture

H8041
Interleukin-23 human
IL-23, recombinant, expressed in HEK 293 cells, HumanKine®, suitable for cell culture

I4144
Interleukin-3 from mouse
IL-3, recombinant, expressed in *E. coli*, lyophilized powder, suitable for cell culture

I1646
Interleukin-3 human

IL-3, recombinant, expressed in *E. coli*, lyophilized powder, suitable for cell culture

H7166
Interleukin-3 human
IL-3, recombinant, expressed in HEK 293 cells, HumanKine®, suitable for cell culture

I1020
Interleukin-4 from mouse
IL-4, recombinant, expressed in *E. coli*, lyophilized powder, suitable for cell culture

I3650
Interleukin-4 from rat
recombinant, expressed in *E. coli*, lyophilized powder, suitable for cell culture, ≥97% (SDS-PAGE)

I4269
Interleukin-4 human
IL-4, recombinant, expressed in *E. coli*, lyophilized powder, suitable for cell culture

H7291
Interleukin-4 human
IL-4, potency:, recombinant, expressed in HEK 293 cells, HumanKine®, suitable for cell culture

I1145
Interleukin-5 from mouse
≥97% (SDS-PAGE), recombinant, expressed in baculovirus infected *Sf*21 cells, lyophilized powder, suitable for cell culture

I5273
Interleukin-5 human
recombinant, expressed in baculovirus infected *Sf*21 cells, ≥97% (SDS-PAGE), lyophilized powder, suitable for cell culture

I9646
Interleukin-6 from mouse
IL-6, recombinant, expressed in *E. coli*, lyophilized powder, suitable for cell culture, carrier free

I0406
Interleukin-6 from rat
IL-6, recombinant, expressed in *E. coli*, buffered aqueous solution, suitable for cell culture

SCU0001
Interleukin-6 human
recombinant, expressed in HEK 293 cells, suitable for cell culture

SRP3096
Interleukin-6 human
Animal-component free, recombinant, expressed in *E. coli*, suitable for cell culture

I1395
Interleukin-6 human
IL-6, recombinant, expressed in *E. coli*, lyophilized powder, suitable for cell culture

H7416
Interleukin-6 human
IL-6, recombinant, expressed in HEK 293 cells, suitable for cell culture

I4892
Interleukin-7 from mouse
≥97% (SDS-PAGE), recombinant, expressed in *E. coli*, lyophilized powder, suitable for cell culture

I5896
Interleukin-7 human
≥98% (SDS-PAGE), recombinant, expressed in *E. coli*, lyophilized powder, suitable for cell culture

I1645
Interleukin-8 human
≥98% (SDS-PAGE and HPLC), recombinant, expressed in *E. coli*, lyophilized powder, suitable for cell culture

SRP8039
Irisin
recombinant, expressed in CHO cells, FLAG® tagged, >95% (SDS-PAGE)

K1757
Keratinocyte Growth Factor human
KGF, recombinant, expressed in *E. coli*, powder, suitable for cell culture

H6666
Keratinocyte Growth Factor human
KGF, recombinant, expressed in HEK 293 cells, HumanKine®, suitable for cell culture

SRP3100
KGF human
Animal-component free, recombinant, expressed in *E. coli*, ≥95% (SDS-PAGE), ≥95% (HPLC), suitable for cell culture

GF341
KGF,
Human Recombinant Animal Free

SRP3105
LEC/NCC-4 (CCL16) human
recombinant, expressed in *E. coli*, ≥98% (SDS-PAGE), ≥98% (HPLC), suitable for cell culture

H6791
LEFTY-B human
recombinant, expressed in HEK 293 cells, HumanKine®, suitable for cell culture

GF050
Leptin, mouse
Leptin (Anti-Obesity Protein) is the protein product of the ob (obese) gene in mice & appears to be involved in appetite control.

SRP9001
Leukemia Inhibitory Factor
human, recombinant, expressed in HEK 293 cells

SRP3221
M-CSF from mouse
Animal-component free, recombinant, expressed in *E. coli*, ≥98% (SDS-PAGE), ≥98% (HPLC), suitable for cell culture

SRP3247
M-CSF from rat
recombinant, expressed in *E. coli*, ≥98% (SDS-PAGE), ≥98% (HPLC), suitable for cell culture

SRP3110
M-CSF human
Animal-component free, recombinant, expressed in *E. coli*, ≥98% (SDS-PAGE), ≥98% (HPLC), suitable for cell culture

SRP3332
M-CSF rat
Animal-component free, recombinant, expressed in *E. coli*, ≥98% (SDS-PAGE), ≥98% (HPLC)

M9170
Macrophage Colony-Stimulating Factor from mouse
M-CSF, recombinant, expressed in *E. coli*, lyophilized powder, suitable for cell culture

M6518
Macrophage Colony-Stimulating Factor human
M-CSF, recombinant, expressed in *E. coli*, lyophilized powder, suitable for cell culture

H6916
Macrophage Colony-Stimulating Factor human
M-CSF, recombinant, expressed in HEK 293 cells, suitable for cell culture

SRP3109
MCP-1/MCAF human
Animal-component free, recombinant, expressed in *E. coli*, ≥98% (SDS-PAGE), ≥98% (HPLC), suitable for cell culture

SRP4226
MCP-2 from mouse
recombinant, expressed in *E. coli*, ≥98% (SDS-PAGE), ≥98% (HPLC)

SRP3111
MDC (67 aa) (CCL22) human
recombinant, expressed in *E. coli*, ≥98% (SDS-PAGE), ≥98% (HPLC), suitable for cell culture

SRP3114
Midkine human
recombinant, expressed in *E. coli*, ≥98% (SDS-PAGE), ≥98% (HPLC), suitable for cell culture

SRP3301
MIDKINE mouse
recombinant, expressed in *E. coli*, ≥98% (SDS-PAGE), ≥98% (HPLC)

GF180
MIF,
Human Recombinant

SRP3248
MIP-1 alpha (CCL3) from rat
recombinant, expressed in *E. coli*, ≥98% (SDS-PAGE), ≥98% (HPLC), suitable for cell culture

SRP3115
MIP-1 beta (CCL4) human
recombinant, expressed in *E. coli*, ≥98% (SDS-PAGE), ≥98% (HPLC), suitable for cell culture

SRP3116
MIP-3 (CCL23) human
recombinant, expressed in *E. coli*, ≥98% (SDS-PAGE), ≥98% (HPLC), suitable for cell culture

M6667
Monocyte Chemotactic Protein-1 human
≥97% (SDS-PAGE and N-terminal analysis), recombinant, expressed in *E. coli*, lyophilized powder, suitable for cell culture

GF041
Monocyte Chemotactic Protein-1, Recombinant rat

The Macrophage/monocyte chemoattractant protein-1 (or MCP-1 protein) plays an important role in the inflammatory response of blood monocytes & tissue macrophages.

M3064
Myostatin human
recombinant, expressed in *E. coli*, lyophilized powder, suitable for cell culture

01310
***N*-Acetyl-L-methionine**
≥98.5% (T)

H9666
Nerve Growth Factor β Human
NGF-β, recombinant, expressed in HEK 293 cells, HumanKine™, suitable for cell culture

N8133
Nerve Growth Factor from *Vipera lebetina* venom
NGF, lyophilized powder, suitable for cell culture

N6009
Nerve Growth Factor-2.5S from murine submaxillary gland
NGF-2.5S, lyophilized powder, suitable for cell culture

N0513
Nerve Growth Factor-7S from murine submaxillary gland
NGF-7S, lyophilized powder, suitable for cell culture

N5415
Nerve Growth Factor-ß human
recombinant, expressed in HEK 293 cells, lyophilized powder, suitable for cell culture

SRP3122
Neuritin human
recombinant, expressed in *E. coli*, ≥98% (SDS-PAGE), ≥98% (HPLC), suitable for cell culture

SRP3123
Neuroserpin human
recombinant, expressed in *E. coli*, ≥96% (SDS-PAGE), ≥96% (HPLC), suitable for cell culture

N1905
Neurotrophin-3 human
recombinant, expressed in baculovirus infected *Sf*21 cells, lyophilized powder, suitable for cell culture, >97% (SDS-PAGE)

SRP3124
Neurturin human
recombinant, expressed in *E. coli*, ≥98% (SDS-PAGE), ≥98% (HPLC), suitable for cell culture

N2513
NGF-β from rat
recombinant, expressed in *Sf*21 cells, lyophilized powder, suitable for cell culture

N1408
NGF-β human
from human, recombinant, expressed in NSO cells, lyophilized powder, suitable for cell culture

SRP4304
NGF-beta from mouse
recombinant, expressed in *E. coli*, ≥98% (SDS-PAGE)

SRP3227
NOGGIN from mouse
recombinant, expressed in *E. coli*, ≥98% (SDS-PAGE), ≥98% (HPLC), suitable for cell culture

N17001
Noggin human
recombinant, expressed in HEK 293 cells, suitable for cell culture

GF173
Noggin Protein, Human Recombinant
The human Noggin recombinant protein belongs to a group of diffusible proteins which bind to ligands of the TGF-β family & regulate their activity by inhibiting their access to signaling receptors.

SRP6007
NT-3 from mouse
recombinant, expressed in *E. coli*, ≥97% (SDS-PAGE), ≥97% (HPLC)

SRP3267
NT-3 human
Animal-component free, recombinant, expressed in *E. coli*, ≥98% (SDS-PAGE), ≥98% (HPLC)

SRP3128
NT-3 human
recombinant, expressed in *E. coli*, ≥98% (SDS-PAGE), ≥98% (HPLC), suitable for cell culture

GF308
NT-3 Protein, Human Recombinant Animal Free
Recombinant animal free human NT-3 is manufactured using all non-animal reagents.

SRP3129
NT-4 human
recombinant, expressed in *E. coli*, ≥98% (SDS-PAGE), ≥98% (HPLC), suitable for cell culture

GF309
NT-4 Protein, Human Recombinant Animal Free

The Neurotrophin-4 protein (or NT-4 protein), also known as NT-5 protein, is a member of the NGF family of neuronal & epithelial growth factors.

SRP3130
Oncostatin M (209 aa) human
recombinant, expressed in *E. coli*, ≥98% (SDS-PAGE), ≥98% (HPLC), suitable for cell culture

O1637
Oncostatin M from mouse
BioReagent, ≥97% (SDS-PAGE), recombinant, expressed in *E. coli*, lyophilized powder, suitable for cell culture

O9635
Oncostatin M human
BioReagent, ≥97% (SDS-PAGE), recombinant, expressed in *E. coli*, lyophilized powder, suitable for cell culture

H6541
Oncostatin M human
OSM, recombinant, expressed in HEK 293 cells, HumanKine®, suitable for cell culture

SRP3250
Oncostatin-M from rat
recombinant, expressed in *E. coli*, ≥98% (SDS-PAGE), ≥98% (HPLC), suitable for cell culture

O3514
Osteopontin from bovine milk
lyophilized powder

O2260
Osteopontin from mouse
>95% (SDS-PAGE), recombinant, expressed in NSO cells, lyophilized powder, suitable for cell culture

O4264
Osteopontin human
recombinant, expressed in NSO cells, ≥95% (SDS-PAGE), lyophilized powder, suitable for cell culture

SRP3132
Osteoprotegerin (OPG) human
recombinant, expressed in *E. coli*, ≥98% (SDS-PAGE), ≥98% (HPLC), suitable for cell culture

O8137
Osteoprotegerin/Fc Chimera from mouse
>95% (SDS-PAGE), recombinant, expressed in NSO cells, lyophilized powder

SRP3136
PAF-AH human
recombinant, expressed in HEK 293 cells, ≥95% (SDS-PAGE), ≥95% (HPLC), suitable for cell culture

SRP3228

PDGF-AA from mouse
recombinant, expressed in *E. coli*, ≥98% (SDS-PAGE), ≥98% (HPLC), suitable for cell culture

SRP3268
PDGF-AA human
Animal-component free, recombinant, expressed in *E. coli*, ≥98% (SDS-PAGE), ≥98% (HPLC)

GF343
PDGF-AA,
Human Recombinant Animal Free

SRP3229
PDGF-BB from mouse
recombinant, expressed in *E. coli*, ≥98% (SDS-PAGE), ≥98% (HPLC), suitable for cell culture

SRP3138
PDGF-BB human
Animal-component free, recombinant, expressed in *E. coli*, ≥98% (SDS-PAGE), ≥98% (HPLC), suitable for cell culture

GF310
PDGF-BB Protein, Human Recombinant Animal Free
The Platelet derived growth factor (PDGF) was discovered as a major mitogenic factor present in serum but absent from plasma. Recombinant animal free human PDGF-BB is manufactured using all non-animal reagents.

GF149
PDGF-BB, recombinant human
The Platelet Derived Growth Factor (PDGF) is a potent mitogen for a wide range of cell types including fibroblasts, smooth muscle & connective tissue.

SRP3139
PDGF-CC human
recombinant, expressed in *E. coli*, ≥98% (SDS-PAGE), ≥98% (HPLC), suitable for cell culture

SRP3140
PECAM-I human
recombinant, expressed in HEK 293 cells, ≥97% (SDS-PAGE), ≥97% (HPLC), suitable for cell culture

SRP3142
PF-4 (CXCL4) human
recombinant, expressed in *E. coli*, ≥98% (SDS-PAGE), ≥98% (HPLC), suitable for cell culture

SRP3231
PF-4 from mouse
recombinant, expressed in *E. coli*, ≥98% (SDS-PAGE), ≥98% (HPLC), suitable for cell culture

P1167
Pituitary Extract bovine
lyophilized powder, suitable for cell culture

P1588
Placenta Growth Factor human
PlGF, recombinant, expressed in *E. coli*, powder, suitable for cell culture

P5739
Placenta Growth Factor-2 from mouse
lyophilized powder, recombinant, expressed in baculovirus infected *Sf*21 cells, suitable for cell culture

SRP6518
Plasminogen from human plasma
≥95% (SDS-PAGE)

GF142
Platelet Derived Growth Factor-AA Protein, Recombinant human
The Platelet Derived Growth Factor (PDGF) is a potent mitogen for a wide range of cell types including fibroblasts, smooth muscle & connective tissue.

P5208
Platelet-Derived Endothelial Cell Growth Factor human
recombinant, expressed in baculovirus infected *Sf*21 cells, lyophilized powder, suitable for cell culture

P8953
Platelet-Derived Growth Factor from porcine platelets
PDGF, lyophilized powder, suitable for cell culture

P3076
Platelet-Derived Growth Factor-AA human
PDGF-AA, recombinant, expressed in *E. coli*, lyophilized powder, suitable for cell culture

P3326
Platelet-Derived Growth Factor-AB human
PDGF-AB, recombinant, expressed in *E. coli*, lyophilized powder, suitable for cell culture

P4056
Platelet-Derived Growth Factor-BB from rat
PDGF-BB, recombinant, expressed in *E. coli*, lyophilized powder, suitable for cell culture

P3201
Platelet-Derived Growth Factor-BB human
PDGF-BB, recombinant, expressed in *E. coli*, lyophilized powder, suitable for cell culture

P4306
Platelet-Derived Growth Factor-BB human
PDGF-BB, recombinant, expressed in *E. coli*, lyophilized powder, suitable for cell culture

SRP3143

Pleiotrophin human
recombinant, expressed in *E. coli*, ≥98% (SDS-PAGE), ≥98% (HPLC), suitable for cell culture

P5333
Pleiotrophin human
≥97% (SDS-PAGE), recombinant, expressed in baculovirus infected *Sf*21 cells, lyophilized powder, suitable for cell culture

SRP4739
PLGF-1 human
recombinant, expressed in *E. coli*, ≥95% (SDS-PAGE), ≥95% (HPLC)

SRP3144
PLGF-3 human
recombinant, expressed in *E. coli*, ≥95% (SDS-PAGE), ≥95% (HPLC), suitable for cell culture

SRP3145
PLGF-I human
Animal-component free, recombinant, expressed in *E. coli*, ≥95% (SDS-PAGE), ≥95% (HPLC), suitable for cell culture

SRP6263
PLGF/PIGF2/PGF human
recombinant, expressed in HEK 293 cells, ≥95% (SDS-PAGE)

SRP6053
ProBDNF human
recombinant, expressed in *E. coli*, ≥95% (SDS-PAGE), ≥95% (HPLC)

SRP6054
ProNGF human
recombinant, expressed in *E. coli*, ≥95% (SDS-PAGE), ≥95% (HPLC)

SRP3292
R-SPONDIN-1 human
recombinant, expressed in CHO cells, ≥95% (SDS-PAGE), ≥95% (HPLC)

SRP3322
R-SPONDIN-2 human
recombinant, expressed in CHO cells, ≥95% (SDS-PAGE), ≥95% (HPLC)

SRP3323
R-SPONDIN-3 human
recombinant, expressed in CHO cells, ≥95% (SDS-PAGE), ≥95% (HPLC)

I1146
R^3 IGF-1 human
recombinant, expressed in *E. coli*, lyophilized powder, suitable for cell culture

R0525
RANK Ligand from mouse
≥98% (SDS-PAGE), recombinant, expressed in *E. coli*, lyophilized powder, suitable for cell culture

T3573
RANK Ligand/TRANCE human
>90% (SDS-PAGE), recombinant, expressed in NSO cells, lyophilized powder

R6267
RANTES human
≥97% (SDS-PAGE), recombinant, expressed in *E. coli*, lyophilized powder, suitable for cell culture

SRP3234
SCF from mouse
Animal-component free, recombinant, expressed in *E. coli*, ≥98% (SDS-PAGE), ≥98% (HPLC), suitable for cell culture

SRP3251
SCF from rat
recombinant, expressed in *E. coli*, ≥98% (SDS-PAGE), ≥98% (HPLC), suitable for cell culture

SRP3151
SCF human
Animal-component free, recombinant, expressed in *E. coli*, ≥98% (SDS-PAGE), ≥98% (HPLC), suitable for cell culture

GF312
SCF Protein, Human Recombinant Animal Free
The Stem cell factor also known as ckit ligand, mast cell growth factor & steel factor (SLF), is a widely expressed 28-40kDa type I transmembrane glycoprotein. Recombinant animal free human SCF is manufactured using all non-animal reagents.

SRP3152
SCGF-alpha human
recombinant, expressed in *E. coli*, ≥98% (SDS-PAGE), ≥98% (HPLC), suitable for cell culture

SRP3153
SCGF-beta human
recombinant, expressed in *E. coli*, ≥98% (SDS-PAGE), ≥98% (HPLC), suitable for cell culture

SRP3252
SDF-1 alpha from rat
recombinant, expressed in *E. coli*, ≥98% (SDS-PAGE), ≥98% (HPLC), suitable for cell culture

SRP3276
SDF-1 ALPHA human
Animal-component free, recombinant, expressed in *E. coli*, ≥98% (SDS-PAGE), ≥98% (HPLC)

SRP3253
SDF-1 beta from rat
recombinant, expressed in *E. coli*, ≥95% (SDS-PAGE), ≥95% (HPLC), suitable for cell culture

SRP3277
SDF-1 BETA human
Animal-component free, recombinant, expressed in *E. coli*, ≥98% (SDS-PAGE), ≥98% (HPLC)

GF344
SDF-1α (CXCL12),
Human Recombinant Animal Free

GF345
SDF-1β (CXCL12),
Human Recombinant Animal Free

SRP4391
SDF-1beta (CXCL12) from mouse
recombinant, expressed in *E. coli*, ≥98% (SDS-PAGE), ≥98% (HPLC)

GF091
Soluble RANK Ligand (sRANKL) Protein, Recombinant human
The recombinant human sRANKL protein is produced in E. Coli.

GF174
Sonic HedgeHog (Shh) Protein, Human Recombinant
The hedgehog (hh) gene encoding a secreted protein was originally identified in Drosophila as a segment polarity gene.

S9915
Stem Cell Factor from mouse
SCF, recombinant, expressed in *E. coli*, powder, suitable for cell culture

S7901
Stem Cell Factor human
SCF, recombinant, expressed in *E. coli*, powder, suitable for cell culture

H8416
Stem Cell Factor human
SCF, recombinant, expressed in HEK 293 cells, suitable for cell culture

GF021
Stem Cell Factor Protein, Recombinant human
The Stem Cell Factor (SCF) Protein, Recombinant human, is a hematopoietic growth factor that exerts its activity at the early stages of hematopoiesis.

GF141
Stem Cell Factor Protein, Recombinant mouse

The Stem Cell Factor (SCF) Protein, Recombinant mouse, is a hematopoietic growth factor that exerts its activity at the early stages of hematopoiesis.

S5816
Stromal Cell-Derived Factor 1α/pre-B Cell Growth Stimulating Factor from mouse
SDF-1α, recombinant, expressed in *E. coli*, powder, suitable for cell culture

S1577
Stromal Cell-Derived Factor 1α/pre-B Cell Growth Stimulating Factor human
recombinant, expressed in *E. coli*, lyophilized powder, ≥97% (SDS-PAGE), suitable for cell culture

S8406
Stromal Cell-Derived Factor 1β/pre-B Cell Growth Stimulating Factor human
>97% (SDS-PAGE), recombinant, expressed in *E. coli*, lyophilized powder, suitable for cell culture

GF128
Stromal Cell-Derived Factor-1α Protein, Recombinant mouse
Stromal Cell-Derived Factor-1 alpha protein (or SDF-1 alpha protein) is a recently discovered protein belonging to the alpha chemokine (CXC) family of cytokines.

GF313
TGF- α Protein, Human Recombinant Animal Free
Transforming growth factor alpha (TGF-α) is an EGF-related polypeptide growth factor that signals through the EGF receptor & stimulates the proliferation of a wide range of epidermal & epithelial cells. Manufactured using all non-animal reagents.

GF176
TGF-β-III Protein, Human Recombinant
TGF-β-III (transforming growth factor beta III) is one of three closely related mammalian members of the large TGF-β superfamily.

GF317
TGF-β-III Protein, Human Recombinant Animal Free
TGF-β-III is one of three closely related mammalian members of the large TGF-β superfamily.Recombinant animal free human TGF-β-III is manufactured using all non-animal reagents.

SRP0300
TGF-β1 Latent human
recombinant, expressed in FreeStyle™ 293-F cells, ≥98% (SDS-PAGE)

GF346
TGF-β1,
Human Recombinant Animal Free

SRP6552
TGF-β3 from mouse
recombinant, expressed in *E. coli*, ≥98% (SDS-PAGE)

GF037
Thrombopoietin
TPO (Thrombopoietin, Mpl-ligand, MGDF) stimulates the proliferation & maturation of megakaryocytes & promotes increased circulating levels of platelets in vivo.

T4184
Thrombopoietin from mouse
recombinant, expressed in NSO cells, lyophilized powder, suitable for cell culture, >97% (SDS-PAGE)

T1568
Thrombopoietin human
recombinant, expressed in *E. coli*, lyophilized powder, suitable for cell culture, ≥98% (SDS-PAGE and HPLC)

GF314
TNF- α Protein, Human Recombinant Animal Free
Tumor necrosis factor alpha (TNF-α), also known as cachectin & TNFSF1A, is the prototypic ligand of the TNF superfamily. Recombinant animal free human TNF-α is manufactured using all non-animal reagents.

SRP3177
TNF-α human
Animal-component free, recombinant, expressed in *E. coli*, suitable for cell culture

SRP3236
TPO from mouse
recombinant, expressed in *E. coli*, ≥98% (SDS-PAGE), ≥98% (HPLC), suitable for cell culture

SRP3255
TPO from rat
recombinant, expressed in *E. coli*, ≥98% (SDS-PAGE), ≥98% (HPLC), suitable for cell culture

SRP3178
TPO human
Animal-component free, recombinant, expressed in *E. coli*, ≥98% (SDS-PAGE), ≥98% (HPLC), suitable for cell culture

SRP3272
TPO mouse
Animal-component free, recombinant, expressed in *E. coli*, ≥98% (SDS-PAGE), ≥98% (HPLC)

GF347
TPO,
Human Recombinant Animal Free

GF092
TRAIL Protein, Recombinant human
Human TRAIL (TNF-Related Apoptosis Inducing Ligand), also called APO2 Ligand, is a cytotoxic protein which activates rapid apoptosis in tumor cells, but not in normal cells.

T7924

Transforming Growth Factor-α human
TGF-α, recombinant, expressed in *E. coli*, powder, suitable for cell culture

T7039
Transforming Growth Factor-β1 human
TGF-β1, recombinant, expressed in CHO cells, powder, suitable for cell culture

H8541
Transforming Growth Factor-β1 human
TGF-β1, Xeno-free, recombinant, expressed in HEK 293 cells, suitable for cell culture

T5300
Transforming Growth Factor-β2 from porcine platelets
powder, suitable for cell culture

T2815
Transforming Growth Factor-β2 human
TGF-β2, recombinant, expressed in NSO cells, powder, suitable for cell culture

H8666
Transforming Growth Factor-β2 human
TGF-β2, recombinant, expressed in HEK 293 cells, HumanKine®, suitable for cell culture

GF113
Transforming Growth Factor-β2 Protein, Recombinant human
Transforming Growth Factor-beta2 (TGF-beta2) is a member of a superfamily of homologous, disulfide-linked, homodimeric proteins that regulate the proliferation & differentiation of normal & transformed cells.

T5425
Transforming Growth Factor-β3 human
TGF-β3, recombinant, expressed in baculovirus infected *Sf*21 cells, powder, suitable for cell culture

H8791
Transforming Growth Factor-β3 human
TGF-β3, recombinant, expressed in HEK 293 cells, HumanKine®, suitable for cell culture

T0706
Tropoelastin human
recombinant, expressed in *E. coli*, 1 mg

T7539
Tumor Necrosis Factor-α from mouse
TNF-α, recombinant, expressed in *E. coli*, powder, suitable for cell culture

T5944
Tumor Necrosis Factor-α from rat
TNF-α, recombinant, expressed in *E. coli*, powder, suitable for cell culture

T6674
Tumor Necrosis Factor-α human
TNF-α, recombinant, expressed in *E. coli*, powder, suitable for cell culture

H8916
Tumor Necrosis Factor-α human
Xeno-free, recombinant, expressed in HEK 293 cells, suitable for cell culture

GF023
Tumor Necrosis Factor-α Protein, Recombinant human
Tumor Necrosis Factor-alpha (TNF-alpha) is a potent lymphoid factor that exerts cytotoxic effects on a wide range of tumor cells & certain other target cells.

T7799
Tumor Necrosis Factor-β human
TNF-β, recombinant, expressed in *E. coli*, powder, suitable for cell culture

GF102
TWEAK, human
Human TWEAK is a new secreted ligand in the tumor necrosis factor family that weakly induces apoptosis.

GF348
TWEAK,
Human Recombinant Animal Free

V3388
Vascular Endothelial Growth Factor (aa 207-318) human
≥97% (SDS-PAGE), recombinant, expressed in *E. coli*, lyophilized powder

H9041
Vascular Endothelial Growth Factor 121 human
VEGF121, recombinant, expressed in HEK 293 cells, HumanKine®, suitable for cell culture

V3638
Vascular Endothelial Growth Factor 164 from rat
>95% (SDS-PAGE), recombinant, expressed in NSO cells, lyophilized powder

H9166
Vascular Endothelial Growth Factor 165 human
VEGF165, recombinant, expressed in HEK 293 cells, HumanKine®, suitable for cell culture

V4512
Vascular Endothelial Growth Factor from mouse
VEGF, recombinant, expressed in *E. coli*, powder, suitable for cell culture

V7259
Vascular Endothelial Growth Factor human

VEGF, recombinant, expressed in *E. coli*, powder, suitable for cell culture

SRP3181
VCAM-I human
recombinant, expressed in HEK 293 cells, ≥98% (SDS-PAGE), ≥98% (HPLC), suitable for cell culture

SRP3182
VEGF human
Animal-component free, recombinant, expressed in *E. coli*, ≥98% (SDS-PAGE), ≥98% (HPLC), suitable for cell culture

SRP3183
VEGF-B human
recombinant, expressed in *E. coli*, ≥98% (SDS-PAGE), ≥98% (HPLC), suitable for cell culture

SRP6020
VEGF-C from rat
recombinant, expressed in *E. coli*, ≥90% (SDS-PAGE)

SRP3184
VEGF-C human
recombinant, expressed in HEK 293 cells, ≥95% (SDS-PAGE), ≥95% (HPLC), suitable for cell culture

SRP4633
VEGF-C human
recombinant, expressed in *E. coli*, ≥90% (SDS-PAGE)

SRP6256
VEGF-C human
recombinant, expressed in HEK 293 cells, ≥97% (SDS-PAGE)

SRP3185
VEGF-D human
recombinant, expressed in HEK 293 cells, ≥95% (SDS-PAGE), ≥95% (HPLC), suitable for cell culture

V5890
VEGF121
recombinant, expressed in HEK 293 cells, suitable for cell culture

GF349
VEGF121,
Human Recombinant Animal Free

SRP6430
VEGF164 from mouse
recombinant, expressed in HEK 293 cells, ≥95% (SDS-PAGE)

V5765

VEGF165
recombinant, expressed in HEK 293 cells, suitable for cell culture

SRP4365
VEGF165 from rat
recombinant, expressed in *E. coli*, ≥98% (SDS-PAGE)

GF315
VEGF165 Protein, Human Recombinant Animal Free
The Vascular endothelial growth factor (VEGF or VEGFA) is a potent mediator of both angiogenesis & vasculogenesis in the fetus & adult. Manufactured using all non-animal reagents.

GF181
Vimentin, Human Recombinant

SRP3186
Vitronectin human
recombinant, expressed in HEK 293 cells, ≥95% (SDS-PAGE), ≥95% (HPLC), suitable for cell culture

SRP3187
WISP-1 human
recombinant, expressed in *E. coli*, ≥98% (SDS-PAGE), ≥98% (HPLC), suitable for cell culture

SRP3188
WISP-3 human
recombinant, expressed in *E. coli*, ≥98% (SDS-PAGE), ≥98% (HPLC), suitable for cell culture

GF175
WNT-1, Human Recombinant

SRP6560
Wnt-2 human
recombinant, expressed in *E. coli*, ≥90% (SDS-PAGE)

GF154
Wnt-3a, recombinant mouse
The recombinant murine Wnt-3a protein is a monomeric glycoprotein containing 328 amino acid residues.

GF146
Wnt-5a Protein, Recombinant mouse
The Wnt5a protein is a 352 amino acid protein containing 23 conserved cysteines & contains a cysteine modified by palmitate which is essential for receptor binding & biological activity.

SRP3296
WNT-7A human
recombinant, expressed in HEK 293 cells, ≥80% (SDS-PAGE), ≥80% (HPLC)

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