

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

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Технические характеристики на материалы для масс-спектрометрии белков и хроматографии для очистки белков, материалы для экспрессии белка метки, для очистки рекомбинантных/слитых белков-меток компании **Sigma-Aldrich**

Виды товаров: наборы, реагенты для мечения, калибрантов и стандартов мс, ферментные реагенты, агарозные шарики и аффинные гели, магнитные бусины, планшеты высокой емкости, покрытые стрептавидином, хроматографические колонки и среды, экспрессирующие белки-метки, агарозные шарики и аффинные гели, магнитные бусины, наборы для очистки и др.

Biotinylated Protein Purification



Biotinylated proteins and biotinylated antibodies are commonly used in basic research and drug discovery. Various affinity chromatography resins and prepacked columns and plates are available to bind, isolate, and purify biotinylated proteins and antibodies.

AGAROSE BEADS AND AFFINITY GELS

Agarose beads and affinity gels enable biotinylated protein and biotinylated antibody purification using streptavidin or avidin cross-linked to beaded agarose. Both avidin and streptavidin bind to biotin with high affinity, though avidin can exhibit high non-specific binding. Extravidin®-agarose uses a modified avidin with very high affinity and specificity for biotin. Good for small to large scale purification, these resins are suitable for gravity flow column purification, low-speed centrifugation in batch processing, and low-pressure chromatography procedures. EZview™ affinity gels incorporate a red dye that allows the user to easily differentiate pellet from supernatant, resulting in less protein loss during batch purification.

MAGNETIC BEADS

PureProteome™ Streptavidin magnetic beads provide a rapid and reproducible way to purify immunoglobulins from complex mixtures such as serum, plasma or cell culture supernatant samples. Biotinylated proteins and biotinylated antibodies are purified using a magnetic rack or platform to separate beads from wash and elution fractions. This procedure is suitable for low throughput using single microfuge tubes or higher throughput using 96-well plates with or without automation. Streptavidin Magnetic Particles can also be used for purification of biotinylated proteins and biotinylated antibodies.

SIGMASCREEN™ STREPTAVIDIN HIGH CAPACITY COATED PLATES

SigmaScreen™ streptavidin-coated high capacity plates utilize a proprietary coating technology that provides substantially greater biotin binding capacity than standard streptavidin or ExtrAvidin coated plates. With binding capacity >300 pmol/well (96-well

format) or >150 pmol/well (384-well format), these plates allow the captured protein to be eluted for post-capture analysis by various methods such as MALDI, ICAT or SDS-PAGE. SigmaScreen™ streptavidin-coated high capacity plates are manufactured under ISO 9002 in our GMP facility and deliver high well-to-well and plate-to-plate consistency.

CYTIVA™ AMERSHAM CHROMATOGRAPHY COLUMNS AND MEDIA

A variety of Cytiva™ Amersham chromatography columns and media resins are available for reliable, high resolution small- to large-scale purification of biotinylated proteins and antibodies.

SpinTrap™ columns are prepacked, single-use spin columns for simple, small-scale purification of biotinylated proteins and biotinylated antibodies.

HiTrap™ HP columns are prepacked with Streptavidin Sepharose™ High Performance resin for routine, preparative purification of biotinylated proteins and antibodies.

MultiTrap™ 96-well filter plates provide a fast, reliable format for small-scale purification of biotinylated proteins and antibodies using prepacked 96-well filter plates amenable to centrifugation or vacuum filtration, manually or using automated robotic systems.

Streptavidin Mag Sepharose™ media are comprised of Sepharose™-based magnetic beads designed to simplify enrichment of target proteins by immunoprecipitation or pull-down applications, and can be used for rapid, small-scale purification and screening of biotinylated proteins and biotinylated antibodies from cell supernatants.

Streptavidin Sepharose™ High Performance resin is also available separately for scaling purification.

S6940

SigmaScreen™ Streptavidin High Capacity Coated Plates

96 well clear



A9207

Avidin–Agarose from egg white

aqueous glycerol suspension



B0519

Biotin–Agarose

PBS suspension



E2642

ExtrAvidin® magnetic beads

For purification of biotinylated macromolecules and complexes

FLAG® Purification



FLAG® tags enable superior detection and robust purification of recombinant fusion proteins, with proven utility in numerous downstream applications from binding and activity assays to structural analysis. The FLAG® epitope tag is a short, hydrophilic, eight-amino acid peptide (DYKDDDDK tag) that is readily cleavable by enterokinase (EK). Due to its small size and hydrophilic nature, the FLAG® tag commonly resides on the surface of the fusion protein, minimizing effects on function, secretion, or transport of the fusion protein. Regardless of your final application, we have the tools needed to express, purify, and detect FLAG® fusion proteins.

FLAG® TAG PROTEIN EXPRESSION

Our FLAG® tag protein expression portfolio includes vectors for efficient expression of recombinant fusion proteins in bacterial and mammalian systems. SnapFast™ vector technology allows you to easily move the gene-of-interest from one vector to another for more efficient and cost-effective cloning.

- The standard FLAG® peptide (sequence: DYKDDDDK) is a small tag that can be incorporated with minimal risk of steric hindrance or negative impact on protein solubility
- The 3xFLAG® tag sequence fuses three tandem FLAG® epitopes for enhanced (up to 200X) detection of fusion proteins

FLAG® TAG PROTEIN PURIFICATION

We offer a variety of agarose affinity purification gels, magnetic beads, purification kits, and coated plates for isolation and purification of FLAG® tagged proteins.

- **Agarose affinity gels** enable fusion-tagged protein purification using anti-FLAG® antibodies cross-linked to beaded agarose, and are suited for small to large scale purification, these resins are suitable for gravity flow column purification.

- **Anti-FLAG® M2 Magnetic Beads** are used to purify recombinant fusion-tagged protein using a magnetic rack or platform to separate beads and isolate protein for rapid processing.
- **Anti-FLAG® High Sensitivity M2-coated 96-well plates** are suitable for expression screening, the study of protein-protein interactions, and ELISA assays.

FLAG® TAG DETECTION

FLAG® and 3xFLAG™ tags include binding sites for highly specific anti-FLAG® monoclonal antibodies as well as polyclonal antibodies and conjugates for ELISA, blotting applications, immunofluorescence, immunocytochemistry, immunohistochemistry (IHC), blotting, and flow cytometry.

- The **M2 anti-FLAG® antibody** binds N-terminal FLAG®, C-terminal FLAG®, and Met-FLAG® fusion proteins.
- The **M1 anti-FLAG® antibody** binding is calcium-dependent and specific for the N-terminus of the FLAG® tag.
- The **M5 anti-FLAG® antibody** binds N-terminal FLAG® and Met-FLAG® fusion proteins.

FLAG® ANTIBODY SELECTION GUIDE

*IP=immunoprecipitation; IC=immunochemistry, WB=western blot, EIA=enzyme-linked immunosorbent assay (ELISA)

	Monoclonal anti-FLAG® M1 antibody produced in mouse	Monoclonal anti-FLAG® M2 antibody produced in Mouse		Monoclonal anti-FLAG® M5 antibody produced in Mouse
Catalog Number	F3040	F1804	F3165	F4042
Clone	M1	M2	M2	M5
Immunogen sequence	DYKDDDDK	DYKDDDDK	DYKDDDDK	DYKDDDDK
Antibody purification method	Purified on Protein A Sepharose	Purified on proprietary FLAG® peptide-agarose	Purified on Protein A Sepharose	Purified on Protein A Sepharose
K_d	53.4 nM	9.3 nM	9.3 nM	Unavailable

Specificity	Highly specific. Recognizes only the FLAG® epitope when located at the free N-terminus.	Recognizes the FLAG® sequence at N-terminus, Met-N-terminus, C-terminus or at any internal site of the FLAG® fusion protein.	Strong recognition of the Met-N FLAG® fusion protein. Weak binding with N- or C-terminal fusion protein.	
Sensitivity	Detects 1 ng of FLAG-BAP™ fusion protein on a dot blot	Detects 2 ng of protein on a dot blot	Detects <1 ng of Met-FLAG® fusion protein on a dot blot	
Recommended for:	Recommended for the detection of FLAG® fusion proteins in Mammalian, plants and bacterial expression systems. Very useful for affinity purification. Not recommended for detection of cytoplasmic expressed proteins.	Western blot detection of target proteins expressed on <i>E. coli</i> , plants or mammalian crude cell lysate.	Western blot detection of target proteins expressed on mammalian and drosophilae cell lysate. Particularly useful for the detection of cytoplasmic expressed Met-FLAG fusion proteins. Not recommended for detection of fusion proteins expressed in <i>E. coli</i>	
Applications*	IP, IC, WB, EIA	IP, IC, WB, EIA	IP, IC, WB, EIA	WB

Special requirements	Binding requires calcium. (Complex will dissociate in the absence of calcium ions)	N/A	N/A	N/A
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FLAG® ANTIBODY BINDING CHARACTERISTICS

Antibody & binding characteristics	ANTI-FLAG M1	ANTI-FLAG M2	ANTI-FLAG M5
	Mouse IgG _{2b} MAb	Mouse IgG ₁ MAb	Mouse IgG ₁ MAb
Unprocessed N-terminal FLAG fusion protein: Signal peptide - FLAG - Protein	-	+	Not determined
Met-N-terminal FLAG fusion protein: Met - FLAG - Protein	-	+	++
N-terminal FLAG fusion protein: FLAG - Protein	+	+	Weak
Internal FLAG peptide: Protein - FLAG - Protein	-	+	Not determined
C-terminal FLAG fusion protein: Protein - FLAG	-	+	Weak
Calcium-dependent binding (complex is dissociated in EDTA-containing buffer)	+	-	-

F1804

Monoclonal ANTI-FLAG® M2 antibody produced in mouse

1 mg/mL, clone M2, affinity isolated antibody, buffered aqueous solution (50% glycerol, 10 mM sodium phosphate, and 150 mM NaCl, pH 7.4)



F3165

Monoclonal ANTI-FLAG® M2 antibody produced in mouse

clone M2, purified immunoglobulin (Purified IgG1 subclass), buffered aqueous solution (10 mM sodium phosphate, 150 mM NaCl, pH 7.4, containing 0.02% sodium azide)



F4799

3X FLAG® Peptide

lyophilized powder



A8592

Monoclonal ANTI-FLAG® M2-Peroxidase (HRP) antibody produced in mouse

clone M2, purified immunoglobulin, buffered aqueous glycerol solution



F4049

Monoclonal ANTI-FLAG® M2-FITC antibody produced in mouse

clone M2, purified immunoglobulin, buffered aqueous solution



SAB4301135

Anti-FLAG Tag antibody produced in rabbit

affinity isolated antibody



F9291

Monoclonal ANTI-FLAG® BioM2 antibody produced in mouse

clone M2, purified immunoglobulin, buffered aqueous glycerol solution



F3040

Monoclonal ANTI-FLAG® M1 antibody produced in mouse

clone M1, purified immunoglobulin, buffered aqueous solution



B3111

ANTI-FLAG® M2 antibody, Mouse monoclonal

Clone M2, purified from hybridoma cell culture in bioreactor



F2555

Monoclonal ANTI-FLAG® antibody produced in rabbit

clone SIG1-25, ascites fluid



P7582

Amino-terminal FLAG-BAP™ Fusion Protein



A9469

Monoclonal ANTI-FLAG® M2-Alkaline Phosphatase antibody produced in mouse

clone M2, purified immunoglobulin, buffered aqueous glycerol solution



A9594

Monoclonal ANTI-FLAG® M2-Cy3™ antibody produced in mouse

clone M2, purified immunoglobulin, buffered aqueous solution (Supplied as a solution in 10 mM sodium phosphate)



SAB4200071

ANTI-FLAG® antibody, Rat monoclonal

clone 6F7, purified from hybridoma cell culture



P7457

Carboxy-terminal FLAG-BAP™ Fusion Protein



F4042

Monoclonal ANTI-FLAG® M5 antibody produced in mouse

clone M5, purified immunoglobulin, buffered aqueous solution



SAB4200119

Monoclonal Anti-FLAG-Peroxidase antibody produced in rat

2-4 mg/mL, clone 6F7, purified immunoglobulin

Recombinant/Fusion Tag Protein Purification



Recombinant protein purification by tag-specific affinity chromatography is a proven technology that results in highly specific recognition and purification of recombinant proteins. The expression, purification, and detection of recombinant proteins can be a lengthy and time-consuming endeavor. Depending on the protein of interest and expression system, protein tags may be added to improve the outcome of common steps including protein solubility during expression, purification by affinity chromatography, or immunodetection following isolation and purification. We offer affinity columns and resins for multiple fusion tags in numerous formats, including magnetic beads, packed columns, and agarose resin slurries, ensuring we have products for all various scales and applications.

- **Cytiva™ Amersham Chromatography Columns and Media**
- **Agarose Beads and Affinity Gels**
- **Superflow Agarose and High-flow Affinity Gels**
- **Magnetic Beads**
- **BugBuster® Purification Kits**

CYTIVA™ AMERSHAM CHROMATOGRAPHY COLUMNS AND MEDIA

A wide range of Cytiva™ Amersham chromatography media is available to purify proteins using either manual or automated methods. Prepacked formats include gravity columns, spin columns, 96-well plates, and prepacked columns for use with automated chromatography systems.

- **His-tagged proteins:** Fast and convenient histidine-tagged recombinant protein purification using immobilized metal ion affinity chromatography (IMAC). Ni Sepharose media are precharged with nickel ions (Ni²⁺); TALON® Superflow™ medium is precharged with cobalt ions (Co²⁺).
- **GST-tagged proteins:** Glutathione Sepharose chromatography media are available in lab packs, prepacked GStrap and GSprep columns, and 96-well plates. GST Purification Modules are offered for purification of bacterial lysates. GST SpinTrap modules includes prepacked Glutathione Sepharose 4B SpinTrap columns as well as the buffers needed for purification. RediPack GST Purification Modules include gravity flow columns and buffer.
- **Strep-tag™ II-tagged proteins:** Strep-tag II binds specifically to StrepTactin™ Sepharose High Performance resin, which has StrepTactin ligand immobilized on a Sepharose base matrix to yield pure target protein.
- **MBP-tagged proteins:** Dextrin Sepharose High Performance chromatography medium purifies recombinant proteins tagged with maltose binding protein (MBP).

AGAROSE BEADS AND AFFINITY GELS

Agarose beads and affinity gels enable fusion-tagged protein purification using ligands cross-linked to beaded agarose. Good for small to large scale purification under native, denaturing, or mildly reducing conditions, these resins are suitable for gravity flow column purification, low-speed centrifugation in batch processing, and low-pressure chromatography procedures as the beads and gels are designed for lower pressures. EZview™ affinity gels incorporate a red dye that allows the user

to easily differentiate pellet from supernatant, resulting in less protein loss during batch purification. Immunoprecipitation kits include affinity gels, mini-spin columns, and lysis reagent and are specially designed to allow maximal recovery of proteins from immunoprecipitates.

SUPERFLOW AGAROSE AND HIGH-FLOW AFFINITY GELS

Superflow agarose and High-flow affinity gels use highly crosslinked agarose beads that can withstand higher pressures compared to standard agarose bead resins. This makes these resins suitable for fast protein liquid chromatography (FPLC) purification methods. Superflow agarose and high-flow affinity gels are recommended for medium to large scale purification.

MAGNETIC BEADS

Magnetic beads are used to purify recombinant fusion tagged protein using a magnetic rack or platform to separate beads from wash and elution fractions. This procedure allows for rapid processing under native or denaturing conditions within seconds, and is suitable for low throughput using single microfuge tubes or higher throughput using 96-well plates and automation.

BUGBUSTER® PURIFICATION KITS

BugBuster® purification kits combine affinity resin, wash buffers, elution buffers, and extraction reagent for convenient preparation of soluble cell extracts and affinity purification of tagged fusion proteins from *E. coli*.

F4799

3X FLAG® Peptide

lyophilized powder



D1411

d-Desthiobiotin

≥98% (TLC)



SAE0197

Anti-HA Magnetic Beads

Magnetic agarose, suspension



SAE0201

Anti-C-Myc Magnetic Beads

Magnetic agarose, suspension



I4510

Iminodiacetic acid Sepharose™

aqueous ethanol suspension

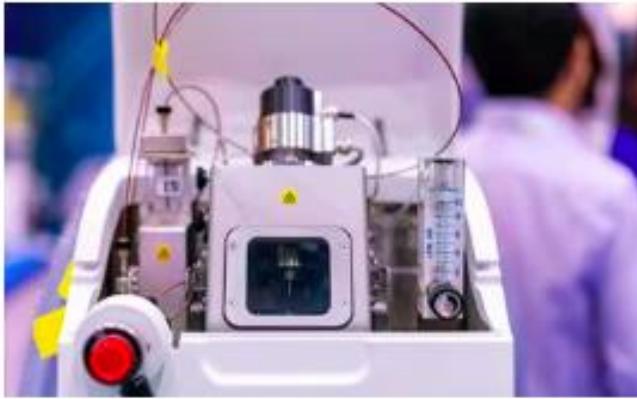


E2513

ExtrAvidin®-Agarose, high binding

For purification of biotinylated macromolecules and complexes

Protein Mass Spectrometry



The growing field of proteomics requires unique reagents and sample prep products such as enzymes, reference standards, mobile phases, matrices and sample clean-up devices. High throughput methods, automation and improvements in LC/MS/MS have allowed mass spec workflows to move outside of academic research and into clinical diagnostic applications. In order to fulfill these mass spectrometry needs we offer a comprehensive range of reagents to cover your complete workflow.

ENZYME REAGENTS

Reliable and efficient protein digestion with selective and pure sequencing grade **proteases** is a crucial step when preparing proteomics samples. We offer a wide range of both natural source and recombinant proteases including endoproteinases like Trypsin (**T1426**), Chymotrypsin (**C6423**), Lys-C (**324715**), Glu-C (**324713**), Asp-N (**324708**), as well as a variety of Aminopeptidases (**A8200**) and Carboxypeptidases (**C9584**). Additionally, SOLu-Trypsin is a ready-to-use recombinant trypsin solution (**EMS0004**). This Advanced Proteomics Grade enzyme is solution stable for mass spectrometry, designed to be stable in solution when refrigerated, and SOLu-Trypsin can be used immediately without preparation.

SILUTMIONS STABLE ISOTOPE-LABELED MS INTERNAL STANDARDS

We provide a wide range of proteomics standards designed specifically for mass spectrometry applications. Highly characterized protein and peptide mixtures are available for applications ranging from MS instrument performance to specific post translational analysis. All products are produced with the highest levels of quality and are designed specifically for your proteomics applications.

Our Universal Proteomics Standards (UPS) with well-defined, well-characterized standards are made up of 48 proteins 6-83 KD or 6 mixtures of 8 proteins (**UPS2**). Additionally, the MS Qual/Quant QC Mix (**MSQC1**) contains 6 trypsin digested human proteins and 14 SIL peptides, while the MS Retention Time Calibration Mix (**MSRT1** and **MSRT2**) are injection-ready mixtures containing 14 stable isotope-labeled peptides or 9 native proteins, respectively.

SILUTMPROT MASS SPEC PRODUCTS

SILuTMProt products are a novel collection of stable isotope labeled (SIL, or "heavy labeled") full length proteins designed to be used as mass spectrometry internal standards for quantitative proteomics. We also offer all the SILuTMProt products in their unlabeled form, SILuTMLite proteins. Additionally, our SILuTMMAb and SILuTMLite Antibody Standards are recombinant IgG1 monoclonal antibody standards that are useful to assess the

pharmacokinetic properties of biotherapeutics, such as monoclonal therapeutic antibodies and Fc-fusion therapeutics. SILu™MAb is a stable isotope labeled antibody, while SILuLite is the corresponding unlabeled form of the antibody.

SCIEX ICHEMISTRY™ SOLUTIONS

In collaboration with SCIEX, we now provide their global distribution mass spectrometry-based tagging chemistries, SCIEX iChemistry™ Solutions, for use in basic research and applied markets. The two companies together provide total reagent solutions for quantitative proteomics, to allow researchers to dig deeper into complex biological systems, analyze prospective biomarkers, and deliver results. You now have access to the largest selection of high-quality tools for workflows to enable biomarker analysis. Specifically, in protein biology, our offerings include the SCIEX ICAT®, iTRAQ®, mTRAQ®, and CYP450 product lines for quantitative proteomics. With our targeted selection of kits, tagging reagents, calibrants, and MS standards, we are committed to meet your mass spectrometry reagent needs.

C8982

α-Cyano-4-hydroxycinnamic acid

suitable for MALDI-TOF MS



B2059

Biotin Polyethyleneoxide Iodoacetamide



P3303

Endoproteinase Asp-N from *Pseudomonas fragi* mutant strain

suitable for protein sequencing, lyophilized powder



P6181

Endoproteinase Glu-C from *Staphylococcus aureus* V8

suitable for protein sequencing, lyophilized powder



EMS0008

LysargiNase

suitable for peptide or protein digestion in solution or in gel



MSP1H

MS PhosphoMix 1 Heavy

Phosphopeptide Standard for MS



MSP1L

MS PhosphoMix 1 Light

Phosphopeptide Standard for MS



MSP2H

MS PhosphoMix 2 Heavy

Phosphopeptide Standard for MS



MSP3H

MS PhosphoMix 3 Heavy

Phosphopeptide Standard for MS



MSP3L

MS PhosphoMix 3 Light

Phosphopeptide Standard for MS



MSQC2

MS QCAL Peptide Mix

lyophilized powder



MSQC1

MS Qual/Quant QC Mix

Proteomics MRM LC-MS Calibration Standard



MSRT1

MS RT Calibration Mix

Proteomics Retention Time Standard for LC-MS



PP0500

Protease Profiler™ Kit

Proteases for Mass Spectrometry and Proteomics



UPS2

Proteomics Dynamic Range Standard Set

Protein Mass Spectrometry Calibration Standard



EMS0006

Recombinant Trypsin

Proteomics Grade, lyophilized powder, recombinant, expressed in *Pichia pastoris*



EMS0007

Recombinant Trypsin Dimethylated

Proteomics Grade, lyophilized powder, recombinant, expressed in *Pichia pastoris*



MSQC8

SigmaMAb Antibody Drug Conjugate (ADC) Mimic

Antibody Cysteine-Fluorophore Conjugate Standard



MSRT2

SigmaProt Intact Protein LC-MS Standard

Proteomics Retention Time Standard



MSQC12

SILu™CHOP Stable-Isotope Labeled CHO Proteins

CHO Host Cell Protein Mixture

MSST0050

SILu™Lite AKT1, RAC-alpha serine/threonine-protein kinase human

recombinant, expressed in HEK 293 cells, MS Protein Standard



MSST0052

SILu™Lite AKT2, RAC-beta serine/threonine-protein kinase human

recombinant, expressed in HEK 293 cells, MS Protein Standard



MSST0054

SILu™Lite AKT3, RAC-gamma serine/threonine-protein kinase human

recombinant, expressed in HEK 293 cells, MS Protein Standard



MSST0012

SILu™Lite ALB Albumin human

recombinant, expressed in HEK 293 cells, MS Protein Standard



MSST0014

SILu™Lite AMBP Alpha-1 Microglycoprotein human

recombinant, expressed in HEK 293 cells, MS protein standard



MSST0002

SILu™Lite APOA1 Apolipoprotein A-1 human

recombinant, expressed in HEK 293 cells, MS Protein Standard



MSST0030

SILu™Lite APOA2 Apolipoprotein A-II human

recombinant, expressed in HEK 293 cells, MS Protein Standard



MSST0056

SILu™Lite APOB48, Apolipoprotein B-48 human

recombinant, expressed in HEK 293 cells, MS Protein Standard



MSST0062

SILu™Lite APOD, Apolipoprotein D human

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



MSST0016

SILu™Lite B2M beta-2-microglobulin human

recombinant, expressed in HEK 293 cells, MS Protein Standard



MSST0036

SILu™Life CCL2 C-C motif chemokine 2 human

recombinant, expressed in HEK 293 cells, MS Protein Standard



MSST0008

SILu™Life CLU Clusterin human

recombinant, expressed in HEK 293 cells, MS Protein Standard



MSST0034

SILu™Life COL1A1 N-terminal propeptide human

recombinant, expressed in HEK 293 cells, MS Protein Standard



MSST0022

SILu™Life CRP C-reactive Protein human

recombinant, expressed in HEK 293 cells, MS Protein Standard



MSST0060

SILu™Life CST3, Cystatin C human

recombinant, expressed in *E. coli*, MS Protein Standard



MSST0042

SILu™Life HAVCR1 Hepatitis A virus cellular receptor 1 human

recombinant, expressed in HEK 293 cells, MS Protein Standard



MSST0040

SILu™Life IFNG Interferon Gamma human

recombinant, expressed in HEK 293 cells, MS Protein Standard



MSST0038

SILu™Life IGFBP7 Insulin-like growth factor-binding protein 7 human

recombinant, expressed in HEK 293 cells, MS Protein Standard



MSST0018

SILu™Life IL6 Interleukin 6 human

recombinant, expressed in HEK 293 cells, MS protein standard



MSST0058

SILu™Life IL8, Interleukin-8 human

recombinant, expressed in HEK 293 cells, MS Protein Standard

MSST0010

SILu™Life MAPK1 Mitogen Activated Protein Kinase 1 human

recombinant, expressed in HEK 293 cells, MS Protein Standard



MSST0020

SILu™Life MAPK3 Mitogen activated protein kinase 3 human

recombinant, expressed in HEK 293 cells, MS Protein Standard



MSST0032

SILu™Life MAPT Microtubule-associated protein tau-441 human

recombinant, expressed in HEK 293 cells, MS Protein Standard



MSST0004

SILu™Life PTX3 Pentraxin-related protein 3 human

recombinant, expressed in HEK 293 cells, MS Protein Standard



MSQC16

SILu™Life SigmaMAb Adalimumab Monoclonal Antibody

recombinant, expressed in CHO cells



MSQC20

SILu™Life SigmaMAb Bevacizumab Monoclonal Antibody

recombinant, expressed in CHO cells



MSQC18

SILu™Life SigmaMAb Cetuximab Monoclonal Antibody

recombinant, expressed in CHO cells



MSQC15

SILu™Life SigmaMAb Infliximab Monoclonal Antibody

recombinant, expressed in CHO cells



MSQC26

SILu™Life SigmaMAb Nivolumab Monoclonal Antibody

recombinant, expressed in CHO cells



MSQC24

SILu™Life SigmaMAb Pembrolizumab Monoclonal Antibody

recombinant, expressed in CHO cells



MSQC17

SILu™Life SigmaMAb Rituximab Monoclonal Antibody

recombinant, expressed in CHO cells



MSQC22

SILu™Life SigmaMAb Trastuzumab Monoclonal Antibody

recombinant, expressed in CHO cells



MSQC4

SILu™Life SigmaMAb Universal Antibody Standard human



MSQC28

SILu™Life SigmaMAb Vedolizumab Monoclonal Antibody

recombinant, expressed in CHO cells



MSST0048

SILu™Life SOST, Sclerostin human

recombinant, expressed in HEK 293 cells, MS Protein Standard



MSST0044

SILu™Life TIMP1, Metalloproteinase inhibitor 1 human

recombinant, expressed in HEK 293 cells, MS Protein Standard



MSST0046

SILu™Life TIMP2, Metalloproteinase inhibitor 2 human

recombinant, expressed in HEK 293 cells, MS Protein Standard



MSST0006

SILu™Life VEGFA Vascular endothelial growth factor A human

recombinant, expressed in HEK 293 cells, MS Protein Standard



MSQC11

SILu™MAb Adalimumab Stable-Isotope Labeled Monoclonal Antibody



MSQC21

SILu™MAb Bevacizumab Stable-Isotope Labeled Monoclonal Antibody

recombinant, expressed in CHO cells

MSQC19

SILu™MAb Cetuximab Stable-Isotope Labeled Monoclonal Antibody

recombinant, expressed in CHO cells



MSQC9

SILu™MAb Infliximab Stable-Isotope Labeled Monoclonal Antibody

recombinant, expressed in CHO cells



MSKT0001

SILu™MAb K1 Pharmacokinetic Kit



MSQC6

SILu™MAB K1 Stable-Isotope Labeled Universal Monoclonal Antibody

recombinant, expressed in CHO cells



MSQC7

SILu™ MAb K4 Stable-Isotope Labeled Universal Monoclonal Antibody
recombinant, expressed in CHO cells



MSQC10

SILu™ MAb Mouse Stable-Isotope Labeled Monoclonal Antibody
from mouse, recombinant, expressed in CHO cells



MSQC27

SILu™ MAb Nivolumab Stable-Isotope Labeled Monoclonal Antibody
recombinant, expressed in CHO cells



MSQC25

SILu™ MAb Pembrolizumab Stable-Isotope Labeled Monoclonal Antibody
recombinant, expressed in CHO cells



MSQC13

SILu™ MAb Rituximab Stable-Isotope Labeled Monoclonal Antibody
recombinant, expressed in CHO cells



MSQC5

SILu™ MAb Stable Isotope-Labeled Monoclonal Antibody Glycan Standard Mouse IgG2b



MSQC3

SILu™ MAB Stable-Isotope Labeled Universal Monoclonal Antibody Standard human
recombinant, expressed in CHO cells



MSQC23

SILu™ MAb Trastuzumab Stable-Isotope Labeled Monoclonal Antibody
recombinant, expressed in CHO cells



MSQC29

SILu® MAb Vedolizumab Stable-Isotope Labeled Monoclonal Antibody
recombinant, expressed in CHO cells



MSPS004

SILu™ Pep C-peptide
synthetic, SIL MS Peptide Standard, ¹³C labeled



MSPS002

SILu™Pep GLP-1 active

synthetic, SIL MS Peptide Standard, ¹³C labeled



MSPS001

SILu™Pep Glucagon

synthetic, SIL MS Peptide Standard, ¹³C labeled



MSPS003

SILu™Pep Oxyntomodulin

synthetic, SIL MS Peptide Standard, ¹³C labeled



MSST0049

SILu™Prot AKT1, RAC-alpha serine/threonine-protein kinase human

recombinant, expressed in HEK 293 cells, SIL MS Protein Standard, ¹³C- and ¹⁵N-labeled



MSST0051

SILu™Prot AKT2, RAC-beta serine/threonine-protein kinase human

recombinant, expressed in HEK 293 cells, ¹³C and ¹⁵N-labeled, SIL MS Protein Standard



MSST0053

SILu™Prot AKT3, RAC-gamma serine/threonine-protein kinase human

recombinant, expressed in HEK 293 cells, SIL MS Protein Standard, ¹³C and ¹⁵N-labeled

MSST0011

SILu™Prot ALB Albumin human

recombinant, expressed in HEK 293 cells, SIL MS Protein Standard, ¹³C and ¹⁵N-labeled



MSST0013

SILu™Prot AMBP Alpha-1 Microglycoprotein human

recombinant, expressed in HEK 293 cells, SIL MS Protein Standard, ¹³C and ¹⁵N-labeled



MSST0001

SILu™Prot APOA1, Apolipoprotein A-1 human

recombinant, expressed in HEK 293 cells, SIL MS Protein Standard, ¹³C- and ¹⁵N-labeled



MSST0029

SILu™Prot APOA2 Apolipoprotein A-II human

recombinant, expressed in HEK 293 cells, SIL MS Protein Standard, ¹³C and ¹⁵N-labeled



MSST0061

SILu™Prot APOD, Apolipoprotein D human

recombinant, expressed in HEK 293 cells, SIL MS Protein Standard, ¹³C and ¹⁵N-labeled



MSST0015

SILu™Prot B2M beta-2-microglobulin human

recombinant, expressed in HEK 293 cells, SIL MS Protein Standard, ¹³C- and ¹⁵N-labeled



MSST0035

SILu™Prot CCL2 C-C motif chemokine 2 human

SIL MS Protein Standard, ¹³C and ¹⁵N-labeled



MSST0007

SILu™Prot CLU Clusterin human

recombinant, expressed in HEK 293 cells, SIL MS Protein Standard, ¹³C and ¹⁵N-labeled



MSST0033

SILu™Prot COL1A1 N-terminal propeptide human

recombinant, expressed in HEK 293 cells, SIL MS Protein Standard, ¹³C and ¹⁵N-labeled



MSST0021

SILu™Prot CRP C-reactive protein human

recombinant, expressed in HEK 293 cells, ¹³C and ¹⁵N-labeled



MSST0059

SILu™Prot CST3, Cystatin C human

recombinant, expressed in *E. coli*, SIL MS Protein Standard, ¹⁵N-labeled



MSST0041

SILu™Prot HAVCR1 Hepatitis A virus cellular receptor 1 human

recombinant, expressed in HEK 293 cells, SIL MS Protein Standard, ¹³C and ¹⁵N-labeled



MSST0039

SILu™Prot IFNG Interferon Gamma human

recombinant, expressed in HEK 293 cells, SIL MS Protein Standard, ¹³C and ¹⁵N-labeled



MSST0063

SILu™Prot IGF-1, Insulin Growth Factor -1 human

recombinant, expressed in *E. coli*, SIL MS Protein Standard, ¹⁵N-labeled



MSST0037

SILu™Prot IGFBP7 Insulin-like growth factor-binding protein 7 human

recombinant, expressed in HEK 293 cells, SIL MS Protein Standard, ¹³C and ¹⁵N-labeled



MSST0017

SILu™Prot IL6 Interleukin 6 human

recombinant, expressed in HEK 293 cells, SIL MS Protein Standard, ¹³C- and ¹⁵N-labeled



MSST0057

SILu™Prot IL8, Interleukin-8 human

recombinant, expressed in HEK 293 cells, SIL MS Protein Standard, ¹³C and ¹⁵N-labeled



MSST0064

SILu™Prot Insulin, human

recombinant, expressed in *Pichia pastoris*, SIL MS Protein Standard, ¹⁵N -labeled



MSST0019

SILu™Prot MAPK3 Mitogen activated protein kinase 3 human

recombinant, expressed in HEK 293 cells, SIL MS Protein Standard, ¹³C and ¹⁵N-labeled



MSST0031

SILu™Prot MAPT Microtubule-associated protein tau-441 human

recombinant, expressed in HEK 293 cells, SIL MS Protein Standard, ¹³C and ¹⁵N-labeled

MSST0003

SILu™Prot PTX3 Pentraxin-related protein PTX3 human

recombinant, expressed in HEK 293 cells, SIL MS Protein Standard, ¹³C- and ¹⁵N-labeled



MSST0047

SILu™Prot SOST, Sclerostin human

recombinant, expressed in HEK 293 cells, SIL MS Protein Standard, ¹³C and ¹⁵N-labeled



MSST0043

SILu™Prot TIMP1, Metalloproteinase inhibitor 1 human

recombinant, expressed in HEK 293 cells, SIL MS Protein Standard, ¹³C and ¹⁵N-labeled



MSST0045

SILu™Prot TIMP2, Metalloproteinase inhibitor 2 human

recombinant, expressed in HEK 293 cells, SIL MS Protein Standard, ¹³C and ¹⁵N-labeled



MSST0005

SILu™Prot VEGFA Vascular endothelial growth factor A human

recombinant, expressed in HEK 293 cells, SIL MS Protein Standard, ¹³C- and ¹⁵N-labeled



MSAB001

SILu™Rich Anti-IL6 MAb, biotin conjugated

clone IL6-4G1, purified from hybridoma cell culture



EMS0004

SOLu-Trypsin

recombinant, expressed in *Pichia pastoris*, Proteomics Grade, liquid



EMS0005

SOLu-Trypsin Dimethylated

Dimethylated, Proteomics Grade, recombinant, expressed in *Pichia pastoris*, ready-to-use solution



MSKT0002

SOLu-Trypsin Rapid Digestion Kit

Proteomics grade



T8658

Trypsin from bovine pancreas

suitable for protein sequencing, lyophilized powder



T6567

Trypsin from porcine pancreas

Proteomics Grade, BioReagent, Dimethylated



PP0100

Trypsin Profile IGD Kit



T7575

Trypsin Singles, Proteomics Grade



TT0010

Trypsin Spin Columns

for proteomics



4370285

Trypsin, TPCK-Treated



4352157

Trypsin, TPCK-Treated



UPS3

Universal Proteomics Standard 3

Protein Mass Spectrometry Calibration Standard



UPS1

Universal Proteomics Standard Set

Protein Mass Spectrometry Calibration Standard

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Барнаул (3852)73-04-60
Белгород (4722)40-23-64
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Псков (8112)59-10-37

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