

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

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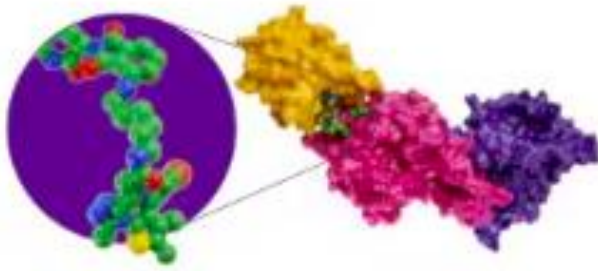
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Технические характеристики на строительные блоки для разрушения белка, реагенты для клик-химии, смешивающие агенты и линкеры КОМПАНИИ **Sigma-Aldrich**

Виды товаров: амины, карбоновые кислоты, азиды, алкины, гидроксилы, алкилгалогениды, бромиды, малеимиды, эфиры, тиолы, дисульфиды, тетразины, библиотеки фрагментов, закодированных ДНК, целевые зонды селективные и характеризованные, биоортогональные репортеры теги, наборы для мониторинга пролиферации клеток, ингибиторы серингидролазы, азидные и алкиновые линкеры, дибензоциклооктины, тетразины или трансциклооктины, ацилтрифторбораты калия и др.

Protein Degradation Building Blocks



Targeted protein degradation (TPD) is a novel approach used in drug discovery to effectively infiltrate cell's proteasomal degradation pathway and quickly eliminate the target proteins from cells. This strategy has the potential to develop new therapeutics that differ considerably from classical inhibitors and is even viable for accessing “undruggable” protein targets and difficult-to-treat diseases.

Our diverse portfolio of protein degrader building blocks allows you to easily generate libraries of protein degraders that can be screened for an effective degradation of your target proteins from the cells. Our protein degraders, such as proteolysis targeting chimeras (PROTAC® molecules), are bifunctional molecules with three primary components:

Ligand at one end that targets the protein of interest (POI)

Second ligand at the opposite end that binds an E3 ligase

Crosslinker in the middle that joins the two ends

PROTEIN DEGRADER BUILDING BLOCK PORTFOLIO

Our protein degrader building blocks are permutations of the following components:

Ligands targeting the E3 ligase Cereblon (CRBN) or von Hippel–Lindau (VHL)

Crosslinkers with varied lengths and compositions

Conjugation sites with reactivity for common functional groups

ALL YOU NEED FOR SUCCESSFUL TARGETED PROTEIN DEGRADATION

The simultaneous degrader binding of two proteins brings the POI in close enough proximity for polyubiquitination to take place by the E2 enzyme associated to the E3 ligase, which flags the POI for degradation through the proteasome.

The precise design of small-molecule target degraders is crucial for successful protein degradation. Even slight alterations in ligands and crosslinkers can affect binding to the POI or E3 ligase. Thus, many analogs are synthesized, varying each structure slightly, and screened in cells to determine the optimal degrader for target degradation.

Our degrader building blocks are a collection of crosslinker-E3 ligand conjugates with a pendant functional group for covalent linkage to a target ligand to streamline synthesis. Since the same functional group is present across a series, one target ligand can be conjugated to several degrader building blocks simultaneously for facile library generation and subsequent screening.

ADVANTAGES OF OUR PROTEIN DEGRADERS

Compatibility: Linkers conjugate to common functional groups present on target ligands

Molecule design: The strategic variety of the combinations of linkers and ligands aids the design of target degraders

Synthetic time-saver: The E3 ligand-crosslinker conjugates decrease the amount of time spent on degrader synthesis

Library generation: Using degrader building blocks with the same conjugation site enables the simultaneous generation of several degraders via parallel synthesis

929352

(S,R,S)-AHPC-di-trimethylamide-dioxodisulfide-carbonate ester



930539

(S,R,S)-AHPC-Me-C₅-COOH

≥95%



T150

(-)-Thalidomide

>98%, solid



920703

((1-(tert-Butoxycarbonyl)piperidin-4-yl)methyl)proline



T151

(+)-Thalidomide

≥98% (HPLC), powder



T144

(±)-Thalidomide

≥98%, powder



744867

(1R,8S,9s)-Bicyclo[6.1.0]non-4-yn-9-ylmethyl N-succinimidyl carbonate

for Copper-free Click Chemistry



917397

(2-(Piperidin-4-yl)phenyl)methanamine dihydrochloride



761591

(4-(1,2,4,5-Tetrazin-3-yl)phenyl)methanamine hydrochloride

95%



764523

(E)-Cyclooct-4-enyl 2,5-dioxo-1-pyrrolidinyl carbonate



901490

(S,R,S)-AHPC hydrochloride

≥97%



918687

(S,R,S)-AHPC-alkyne-piperidine hydrochloride



920762

(S,R,S)-AHPC-benzyl-piperazine hydrochloride



901534

(S,R,S)-AHPC-C₆-CO₂H hydrochloride



905232

(S,R,S)-AHPC-C₆-PEG₃-butyl amine hydrochloride

≥95%



905380

(S,R,S)-AHPC-C₆-PEG₃-butyl chloride

≥95%



917818

(S,R,S)-AHPC-C₉-NH₂ hydrochloride

≥95%



920827

(S,R,S)-AHPC-methylamino-PEG₁-NH₂ hydrochloride



901503

(S,R,S)-AHPC-PEG₁-Alkyne

≥95%



903957

(S,R,S)-AHPC-PEG1-azide

901493

(S,R,S)-AHPC-PEG₁-NH₂ hydrochloride

≥95%



901517

(S,R,S)-AHPC-PEG₂-Alkyne

≥95%



904813

(S,R,S)-AHPC-PEG₂-azide



906123

(S,R,S)-AHPC-PEG₂-butyl amine hydrochloride



905399

(S,R,S)-AHPC-PEG₂-butyl chloride



910600

(S,R,S)-AHPC-PEG₂-butyl CO₂H

≥95%



901488

(S,R,S)-AHPC-PEG₂-NH₂ hydrochloride

≥95%



901533

(S,R,S)-AHPC-PEG₃-Alkyne

≥95%



904651

(S,R,S)-AHPC-PEG₃-azide

≥95%



901511

(S,R,S)-AHPC-PEG₃-NH₂ hydrochloride

≥95%

- 901851
(S,R,S)-AHPC-PEG₄-Alkyne

- 901848
(S,R,S)-AHPC-PEG₄-NH₂ hydrochloride
≥95%

- 901855
(S,R,S)-AHPC-PEG₅-Alkyne

- 901850
(S,R,S)-AHPC-PEG₅-NH₂ hydrochloride

- 901873
(S,R,S)-AHPC-PEG₆-Alkyne

- 909378
(S,R,S)-AHPC-PEG₆-Azide
≥95%

- 905275
(S,R,S)-AHPC-PEG₆-butyl amine hydrochloride
≥95%

- 904864
(S,R,S)-AHPC-PEG₆-butyl azide
≥95%

- 901860
(S,R,S)-AHPC-PEG₆-NH₂ hydrochloride
≥95%

- 920606
(S,R,S)-AHPC-piperazine-pyridine-alkyne-NH₂ hydrochloride
921432
(S,R,S)-AHPC-pyridine-PEG₁-piperazine hydrochloride

- 921939
(S,R,S)-AHPC-pyrimidine-piperazine-PEG₁-NH₂ hydrochloride



920908

(S,R,S)-VL285 Phenol



920851

(S,R,S)-VL285 Phenol-C₂-NH₂ hydrochloride



922153

(S,R,S)-VL285 Phenol-C₃-piperazine hydrochloride



920878

(S,R,S)-VL285 Phenol-C₆-NH₂ hydrochloride



922161

(S,R,S)-VL285 Phenol-methylamino-PEG₁-NH₂ hydrochloride



920843

(S,R,S)-VL285 Phenol-PEG₁-piperazine hydrochloride



920894

(S,R,S)-VL285 Phenol-PEG₂-NH₂ hydrochloride



920886

(S,R,S)-VL285 Phenol-PEG₄-NH₂ hydrochloride



920835

(S,R,S)-VL285 Phenol-piperazine-pyridine-alkyne-NH₂ hydrochloride



901487

(S,S,S)-AHPC hydrochloride

≥97%



930717

1H-Isoindole-1,3(2H)-dione, 2-(2,6-dioxo-3-piperidinyl)-5-(4-piperidinyloxy) hydrochloride

≥95%



920487

1-((1-(*tert*-Butoxycarbonyl)azetidin-3-yl)methyl)-1H-pyrazole-3-carboxylic acid



920576

1-((1-(*tert*-Butoxycarbonyl)azetid-3-yl)methyl)-1*H*-pyrazole-4-carboxylic acid



920649

1-((1-(*tert*-Butoxycarbonyl)piperidin-3-yl)methyl)-1*H*-pyrazole-3-carboxylic acid



923397

1-((2-(*tert*-Butoxycarbonyl)-5-oxa-2-azaspiro[3.4]octan-6-yl)methyl)azetid-3-carboxylic acid



923389

1-((2-(*tert*-Butoxycarbonyl)-5-oxa-2-azaspiro[3.4]octan-6-yl)methyl)piperidine-4-carboxylic acid



920673

1-(1-(*tert*-Butoxycarbonyl)piperidin-3-yl)-1*H*-pyrazole-4-carboxylic acid



923346

1-(2-(*tert*-Butoxycarbonyl)-2-azaspiro[3.3]heptan-6-yl)-1*H*-pyrazole-4-carboxylic acid

901138

14-Azido-3,6,9,12-tetraoxatetradecan-1-amine



901155

17-Azido-3,6,9,12,15-pentaoxaheptadecan-1-amine



923273

2-((3*aR*,7*aR*)-1-(*tert*-Butoxycarbonyl)octahydro-6*H*-pyrrolo[2,3-*c*]pyridin-6-yl)thiazole-4-carboxylic acid



920525

2-((4-(*tert*-Butoxycarbonyl)-1,4-diazepan-1-yl)methyl)oxazole-4-carboxylic acid



920665

2-(1-(1-(*tert*-Butoxycarbonyl)piperidin-3-yl)-1*H*-pyrazol-4-yl)acetic acid



920533

2-(2-((1-(*tert*-Butoxycarbonyl)piperidin-4-yl)methyl)-1*H*-imidazol-1-yl)acetic acid



917419

2-(2-(Piperidin-4-yl)phenyl)ethan-1-amine dihydrochloride



920592

2-(2-(*tert*-Butoxycarbonyl)-5-oxo-2,6-diazaspiro[3.6]decan-6-yl)benzoic acid

923419

2-(3-((2-(*tert*-Butoxycarbonyl)-2-azaspiro[3.3]heptan-6-yl)oxy)phenyl)acetic acid

916641

2-(3-(Piperidin-4-yl)phenyl)ethan-1-amine dihydrochloride

95%



923427

2-(4-((2-(*tert*-Butoxycarbonyl)-2-azaspiro[3.3]heptan-6-yl)oxy)piperidin-1-yl)acetic acid

917362

2-(4-(1-(*tert*-butoxycarbonyl)piperidin-4-yl)phenyl)acetic acid

≥95%



923362

2-(4-(5-Bromopyridin-2-yl)-4,7-diazaspiro[2.5]octan-7-yl)acetic acid

≥90%



917605

2-(4-(Piperidin-4-yl)phenyl)acetic acid hydrochloride

≥95%



923354

2-(6-((4-(*tert*-Butoxycarbonyl)piperazin-1-yl)methyl)-5-oxa-2-azaspiro[3.4]octan-2-yl)acetic acid

920495

2-(6-(1-(*tert*-Butoxycarbonyl)azetidin-3-yl)pyrazin-2-yl)acetic acid

916854

2-(Piperidin-4-yl)benzoic acid hydrochloride

95%



912131

2-Chloro-1-(6-methoxy-1,2,3,4-tetrahydroquinolin-1-yl)ethan-1-one

≥95%



927708

2,2,11-trimethyl-4-oxo-3,8-dioxa-5,11-diazatetradecan-14-oic acid

≥95%



930237

2,5-dioxopyrrolidin-1-yl (2,5-dichlorobenzoyl)glycyl-L-leucinate

≥95%

930792

3-[1,3-Dihydro-4-(4-hydroxy-1-butyn-1-yl)-1-oxo-2H-isoindol-2-yl]-2,6-piperidinedione

≥95.0%



930822

3-[1,3-Dihydro-4-(5-hydroxy-1-pentyn-1-yl)-1-oxo-2H-isoindol-2-yl]-2,6-piperidinedione

≥95.0%



920711

3-(2-(*tert*-Butoxycarbonyl)-5-oxo-2,6-diazaspiro[3.6]decan-6-yl)benzoic acid



923257

3-(3-((7-(*tert*-Butoxycarbonyl)-7-azaspiro[3.5]nonan-2-yl)oxy)piperidin-1-yl)propanoic acid



920657

3-(7-(*tert*-Butoxycarbonyl)-2-ethyl-5,6,7,8-tetrahydroimidazo[1,2-*a*]pyrazin-3-yl)propanoic acid hydrochloride



920509

3-(7-(*tert*-Butoxycarbonyl)-5,6,7,8-tetrahydroimidazo[1,2-*a*]pyrazin-3-yl)propanoic acid



63179

3-(Maleimido)propionic acid N-hydroxysuccinimide ester

≥98.5% (HPLC)



358657

3-Maleimidopropionic acid N-hydroxysuccinimide ester

99%



901699

3-Mercaptopropanyl-N-hydroxysuccinimide ester

>95%



923311

4-((2-(*tert*-Butoxycarbonyl)-2-azaspiro[3.3]heptan-6-yl)oxy)picolinic acid



923400

4-((7-(*tert*-Butoxycarbonyl)-7-azaspiro[3.5]nonan-2-yl)oxy)benzoic acid



923265

4-((7-(*tert*-Butoxycarbonyl)-7-azaspiro[3.5]nonan-2-yl)oxy)picolinic acid

920614

4-(2-(*tert*-Butoxycarbonyl)-5-oxo-2,6-diazaspiro[3.6]decan-6-yl)benzoic acid

920622

4-(2-(*tert*-Butoxycarbonyl)-5-oxo-2,6-diazaspiro[3.6]decan-6-yl)picolinic acid

771058

4-(4'-Hydroxyphenylazo)benzoic acid

97%

49667

4-(Maleimidophenyl)isocyanate

purum, ≥97.0% (CHN)

M6035

4-(*N*-Maleimidomethyl)cyclohexane-1-carboxylic acid 3-sulfo-*N*-hydroxysuccinimide ester sodium salt powder

M5525

4-(*N*-Maleimidomethyl)cyclohexanecarboxylic acid *N*-hydroxysuccinimide ester

≥98%, powder

930695

4-Aminomethyl-2-(2,6-dioxopiperidin-3-yl)isoindole-1,3-dione hydrochloride

≥95%

63175

4-Maleimidobutyric acid *N*-hydroxysuccinimide ester

≥98.0% (HPLC)

930814

4-Pentynoic acid, 5-[2-(2,6-dioxo-3-piperidinyl)-2,3-dihydro-1-oxo-1*H*-isoindol-4-yl]

≥95.0%

928380

5-{4-[2-(2-(((*tert*-butoxy)carbonyl)amino)ethoxy)ethyl]piperazin-1-yl}pyrimidine-2-carboxylic acid

≥95%

923338

5-((2-(*tert*-Butoxycarbonyl)-2-azaspiro[3.3]heptan-6-yl)oxy)pyrazine-2-carboxylic acid



920584

5-(1-(*tert*-Butoxycarbonyl)azetidin-3-yl)pyrazine-2-carboxylic acid



920630

5-(2-(*tert*-Butoxycarbonyl)-5-oxo-2,6-diazaspiro[3.6]decan-6-yl)picolinic acid



776173

5-Norbornene-2-acetic acid succinimidyl ester

97%



923370

6-((2-(*tert*-Butoxycarbonyl)-2-azaspiro[3.3]heptan-6-yl)oxy)pyrimidine-4-carboxylic acid



923303

6-((3*aS*,7*aR*)-1-(*tert*-Butoxycarbonyl)octahydro-6*H*-pyrrolo[2,3-*c*]pyridin-6-yl)pyridazine-3-carboxylic acid



920517

6-(4-(*tert*-Butoxycarbonyl)-1,4-diazepan-1-yl)pyrazine-2-carboxylic acid



M9794

6-Maleimidohexanoic acid *N*-hydroxysuccinimide ester

≥98%, powder



63177

6-Maleimidohexanoic acid *N*-hydroxysuccinimide ester

≥98.0% (HPLC)



451088

6-Mercapto-1-hexanol

97%



923958

6*F*,C5-Pomalidomide-4-piperidine-C₁-piperazine hydrochloride



917710

A1V1PF2-OEt

≥95%



917672

A1V1PF2-OEt-C10-NH₂ hydrochloride



917427

A1V1PF2-OEt-C₆-NH₂ hydrochloride



917923

A1V1PF2-OEt-PEG₁-NH₂ hydrochloride



916676

A1V1PF2-OEt-PEG₃-NH₂ hydrochloride



917222

A1V2PF1-NHEt

≥95%



917206

A1V2PF1-NHEt-C₁₀-NH₂

916943

A1V2PF1-NHEt-C₆-NH₂



917451

A1V2PF1-NHEt-PEG₁-NH₂

≥95%



917702

A1V2PF1-NHEt-PEG₃-NH₂



916714

A1V2PF2-NHEt

≥95%



916684

A1V2PF2-NHEt-C₁₀-NH₂

≥95%



917931

A1V2PF2-NHEt-C₆-NH₂



916935

A1V2PF2-NHEt-PEG₁-NH₂



917192

A1V2PF2-NHEt-PEG₃-NH₂

≥95%



797685

ADIBO-PEG4-acid

90% (HPLC)



SML2923

ARV-771

≥98% (HPLC)



914223

Biotin-SLF



913979

Biotin-Thalidomide

≥95%



917478

BocA1V1PF2

≥95%



917184

BocA1V1PF2-OC₁₀-NH₂ hydrochloride



916927

BocA1V1PF2-OC₆-NH₂ hydrochloride

≥95%



917435

BocA1V1PF2-OPEG₁-NH₂ hydrochloride

≥95%



917680

BocA1V1PF2-OPEG₃-NH₂ hydrochloride



916978

BocA1V2PF1

≥95%



916706

BocA1V2PF1-NHC₁₀-NH₂



917966

BocA1V2PF1-NHC₆-NH₂

916951

BocA1V2PF1-NHPEG₁-NH₂



917214

BocA1V2PF1-NHPEG₃-NH₂

≥85%



917974

BocA1V2PF2



917699

BocA1V2PF2-NHC₁₀-NH₂

≥85%



917443

BocA1V2PF2-NHC₆-NH₂



917958

BocA1V2PF2-NHPEG₁-NH₂



916692

BocA1V2PF2-NHPEG₃-NH₂

≥95%



902675

BocNH-PEG₆-acid



901572

Bromo-PEG₂-acid

≥95%



901568

Bromo-PEG₃-acid



911690

C5 Lenalidomide

≥95%



920754

C5 Lenalidomide-benzyl-piperazine hydrochloride



917303

C5 Lenalidomide-C₆-PEG₁-C₃-PEG₁-Butyl NH₂ hydrochloride

≥95%



911720

C5 Lenalidomide-C₉-NH₂ hydrochloride

≥95%



927732

C5 Lenalidomide-difluoroPEG₁-C₄-piperazine Hydrochloride

≥95%



919896

C5 Lenalidomide-dipiperazine-NH₂ hydrochloride



920800

C5 Lenalidomide-methylamino-PEG₁-NH₂ hydrochloride

≥95%



911739

C5 Lenalidomide-PEG₁-NH₂ hydrochloride

≥95%



919969

C5 Lenalidomide-PEG₂-Butyl NH₂ hydrochloride

≥95%



911755

C5 Lenalidomide-PEG₅-NH₂ hydrochloride

921327

C5 Lenalidomide-PEG₆-Butyl NH₂ hydrochloride

≥95%

917729
C5 Lenalidomide-piperazine-pyridine-alkyne-NH₂ hydrochloride
≥95%

920797
C5 Lenalidomide-pyridine-PEG₁-piperazine hydrochloride
≥95%

921300
C5 Lenalidomide-pyrimidine-piperazine-PEG₁-NH₂ hydrochloride
≥95%

911704
C5 Lenalidomine-C₃-NH₂ hydrochloride
≥95%

911712
C5 Lenalidomine-C₆-NH₂ hydrochloride
≥95%

929441
C5-Pomalidomide-piperazine hydrochloride
≥95%

919381
CCW16
≥95%

919403
CCW16-C4-BocNH
95%

919411
CCW16-C6-BocNH

919489
CCW16-C6-PEG₃-butyl-BocNH

919438
CCW16-C9-BocNH
≥95%

919446

CCW16-PEG₁-BocNH



919470

CCW16-PEG₂-butyl-BocNH

≥95%



919454

CCW16-PEG₃-BocNH

≥95%



919462

CCW16-PEG₅-BocNH

≥95%



SML2687

dBET1

≥98% (HPLC)



SML2683

dBET6

≥98% (HPLC)



SML2911

dBRD9 Hydrochloride

≥97% (HPLC)



761516

Dibenzocyclooctyne-acid

95%, storage temp.: -20°C

761540

Dibenzocyclooctyne-amine

for Copper-free Click Chemistry



761524

Dibenzocyclooctyne-N-hydroxysuccinimidyl ester

for Copper-free Click Chemistry



759902

Dibenzocyclooctyne-PEG₄-acid

for Copper-free Click Chemistry



761982

Dibenzocyclooctyne-PEG₄-alcohol

for Copper-free Click Chemistry



764019

Dibenzocyclooctyne-PEG4-N-hydroxysuccinimidyl ester
≥90%



762040

Dibenzocyclooctyne-sulfo-N-hydroxysuccinimidyl ester
for Copper-free Click Chemistry



SML2601

dTAG-13
≥98% (HPLC)



SML2684

dTRIM24
≥98% (HPLC)



SML2950

E7820
≥98% (HPLC)



925101

E7820-C₃-NH₂ hydrochloride



925128

E7820-C₆-NH₂ hydrochloride



924997

E7820-C₉-NH₂ hydrochloride



925004

E7820-PEG₁-NH₂ hydrochloride



925039

E7820-PEG₃-NH₂ hydrochloride



925012

E7820-PEG₅-NH₂ hydrochloride



929484

FbNG-C₃-PEG₁-C₃-NH₂ hydrochloride
≥95%



929301

FBnG-C3-PEG₃-C3-NH₂ hydrochloride

≥95%



929328

FBnG-C3-PEG₅-C3-NH₂ hydrochloride

≥95%



914738

KB02-SLF

≥95%



914975

KB03-SLF

≥95%

913715

KB05-SLF



901558

Lenalidomide

≥95%



SML2283

Lenalidomide

≥98% (HPLC)



918091

Lenalidomide-Photoswitch2-NH₂ hydrochloride

≥95%



920681

Lithium 2-(3-(4-(*tert*-butoxycarbonyl)-1,4-diazepan-1-yl)pyrazin-2-yl)acetate



M3884

Maleimidoacetic acid N-hydroxysuccinimide ester

≥95%



930210

N-(2,5-Dichlorobenzoyl)glycyl-L-leucine

≥95.0%



929476

N-Acetyl-S-(2-amino-9-(4-fluorobenzyl)-6-oxo-6,9-dihydro-1*H*-purin-8-yl)-L-cysteine

≥95%



745073

N-[(1R,8S,9s)-Bicyclo[6.1.0]non-4-yn-9-ylmethoxycarbonyl]-1,8-diamino-3,6-dioxaoctane
for Copper-free Click Chemistry



56951

N-(2-Aminoethyl)maleimide trifluoroacetate salt
≥95% (HPLC), ≥98% (T)



773263

N-(2-Hydroxyethyl)maleimide
97%



100919

N-(4-Bromobutyl)phthalimide
98%



911798

N-(4-Bromophenyl)-N-phenylacrylamide
≥95%



901494

N-Methylated pomalidomide
≥98%



N6287

Nutlin-3
≥98% (HPLC), powder



SML0580

Nutlin-3a
≥98% (HPLC)



929433

Opto-pomalidomide-C₂-NH₂ hydrochloride
≥95%



929379

Opto-thalidomide-O-acetamide-C₄-NH₂ hydrochloride



P0018

Pomalidomide
≥98% (HPLC)



930660

Pomalidomide 4'-PEG₃-amine hydrochloride

≥95%

923931

Pomalidomide-4-piperidine-C₁-piperazine hydrochloride



920746

Pomalidomide-benzyl-piperazine hydrochloride



930652

Pomalidomide-C₂-NH₂ hydrochloride

≥95%



929336

Pomalidomide-C₅-phosphoramidite



901500

Pomalidomide-C₃-CO₂H

≥95%



911658

Pomalidomide-C₃-NH₂ hydrochloride

≥95%



901496

Pomalidomide-C₆-CO₂H

≥98%



911666

Pomalidomide-C₆-NH₂ hydrochloride

≥95%



904880

Pomalidomide-C₆-PEG₁-C₃-PEG₁-butyl azide

≥95%



906050

Pomalidomide-C₆-PEG₁-C₃-PEG₁-butyl iodide

≥95%



904686

Pomalidomide-C₆-PEG₃-butyl azide

≥95%



904708

Pomalidomide-C₆-PEG₃-butyl iodide

≥95%



901525

Pomalidomide-C₉-CO₂H

≥95%



920738

Pomalidomide-C₉-NH₂ hydrochloride



927678

Pomalidomide-difluoroPEG₁-C₄-piperazine Hydrochloride

≥95%



915572

Pomalidomide-dipiperazine-NH₂ hydrochloride

≥95%



921319

Pomalidomide-methylamino-PEG₁-NH₂ hydrochloride



930547

Pomalidomide-PEG₁-C₂-azide

≥95.0%



930563

Pomalidomide-PEG₂-C₂-azide

≥95%



930520

Pomalidomide-PEG₂-C₂-NH₂ hydrochloride

≥95%

901523

Pomalidomide-PEG₁-Alkyne

≥98%



903825

Pomalidomide-PEG₁-azide



901527

Pomalidomide-PEG₁-CO₂H

≥95%



901516

Pomalidomide-PEG₁-NH₂ hydrochloride

≥95%



901529

Pomalidomide-PEG₂-Alkyne

≥95%



903833

Pomalidomide-PEG₂-azide



910449

Pomalidomide-PEG₂-butyl CO₂H

≥95%



904724

Pomalidomide-PEG₂-butyl iodide

≥95%



901526

Pomalidomide-PEG₂-CO₂H

95%



901513

Pomalidomide-PEG₂-NH₂ hydrochloride

≥95%



901531

Pomalidomide-PEG₃-Alkyne

≥95%



904678

Pomalidomide-PEG₃-azide



901504

Pomalidomide-PEG₃-CO₂H

≥95%



901495

Pomalidomide-PEG₃-NH₂ hydrochloride

≥95%



909386

Pomalidomide-PEG₄-Azide

≥95%



901824

Pomalidomide-PEG₄-CO₂H



901830

Pomalidomide-PEG₄-NH₂ hydrochloride

≥95%



901834

Pomalidomide-PEG₅-Alkyne

≥95%



909394

Pomalidomide-PEG₅-azide

≥95%



901828

Pomalidomide-PEG₅-CO₂H

≥95%

901831

Pomalidomide-PEG₅-NH₂ hydrochloride



909408

Pomalidomide-PEG₆-azide

≥95%



905224

Pomalidomide-PEG₆-butyl amine hydrochloride

≥95%



903434

Pomalidomide-PEG₆-butyl azide

≥95%



910481

Pomalidomide-PEG₆-butyl CO₂H

≥95%



903442

Pomalidomide-PEG₆-butyl iodide

≥95%



901829

Pomalidomide-PEG₆-CO₂H



901832

Pomalidomide-PEG₆-NH₂ hydrochloride

≥98%



930555

Pomalidomide-piperazine-acetic acid

≥95%



923877

Pomalidomide-piperazine-C₁-4-piperidine hydrochloride



923885

Pomalidomide-piperazine-piperidine-4-carboxamide hydrochloride



930709

Pomalidomide-piperazine-propanoic acid

≥95.0%



930571

Pomalidomide-piperidine-carboxylic acid

≥95%



920789

Pomalidomide-pyridine-PEG₁-piperazine hydrochloride



901567

Propargyl-PEG₁-acid

≥95%



901566

Propargyl-PEG₂-acid



901565

Propargyl-PEG₃-acid



42002
Sulfo-N-succinimidyl 4-maleimidobutyrate sodium salt
~90%



901577
t-Boc-N-amido-PEG₂-CH₂CO₂H
≥95%



901575
t-Boc-N-amido-PEG₃-CH₂CO₂H
≥95%

790435
TCO PEG₄ succinimidyl ester



790451
TCO-amine HCl salt



790443
TCO-PEG₃-maleimide



920541
tert-Butyl 1-oxa-4,9-diazaspiro[5.6]dodecane-9-carboxylate



920568
tert-Butyl 3-(5,6,7,8-tetrahydroimidazo[1,2-a]pyrazin-3-yl)propanoate



917400
tert-Butyl 4-(3-(hydroxymethyl)phenyl)piperidine-1-carboxylate
≥95%



900913
Tetrazine-PEG₅-NHS ester
≥95%



SML2686
THAL-SNS-032
≥98% (HPLC)



919888
Thalidomide-Photoswitch3-NH₂ hydrochloride
≥95%



930628

VH 032 amide-alkyl C₃-acid

≥95%



930636

VH 032 amide-alkyl C₅-acid

≥95%



930644

VH 032 amide-PEG₂-acid

≥95%



930601

VH032-cyclopropane-F

≥95%



930598

VH032-OH

≥95%

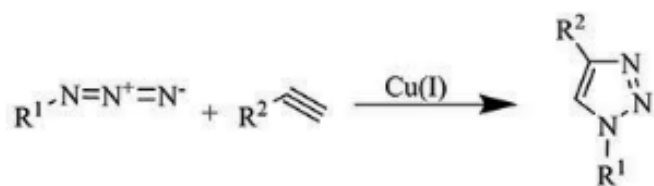


SML1896

VH298

≥98% (HPLC)

Click Chemistry Reagents



Our extensive portfolio of click chemistry reagents offers a variety of azides, alkynes, catalysts, and ligands to help accelerate your research in the exciting arena of “click” chemistry. Click chemistry is a term coined by Barry Sharpless to describe chemical reactions that are modular, efficient, wide in scope, provide very high yields, and generate only inoffensive byproducts. The most well-known example of a “click” reaction is the Copper(I)-catalyzed Azide-Alkyne 1,3-dipolar Cycloaddition (CuAAC), which yields a 1,4-disubstituted five-membered 1,2,3-triazole ring.

This reaction between azides and alkynes offers high yields and involves functionalities that can be introduced relatively easily in a variety of molecules such as synthetic polymers, fluorophores, small molecules or into specific locations in biomolecules. An advantage of this reaction for biological purposes is that the azide and alkyne functional groups are largely

inert, or biorthogonal, towards biological molecules and aqueous environments. "Click" chemistry continues to gain popularity and is used in a variety of research fields with significant contributions to the fields of chemical biology, polymer chemistry, bioconjugation, and drug discovery.

AMINO ACID AZIDES/ALKYNES FOR CLICK CHEMISTRY

Peptide synthesis using natural and non-natural amino acids is a powerful tool in the development of therapeutics and in understanding biological chemistry. We offer a variety of Fmoc- and Boc-protected azido amino acids for your peptide or amino acid-based chemical ligation needs, such as azide-alkyne cycloaddition reactions and Staudinger ligations.

AZIDE SOURCES FOR CLICK CHEMISTRY

Incorporating azido functional groups into organic molecules is becoming an increasingly important task as these moieties continue to impact organic chemistry as well as biology in uses ranging from amino group protection to chemical ligation. We offer a wide selection of azide sources, from sodium azide to diphenyl phosphoryl azide, to facilitate azide synthesis and the preparation of tailor-made organic azides.

ORGANIC AZIDES FOR CLICK CHEMISTRY

Since the preparation of the first organic azide, phenyl azide, by Peter Griess in 1864, this energy-rich and versatile class of compounds has enjoyed considerable interest. Completely new perspectives have emerged, notably the use of organic azides for peptide synthesis, combinatorial synthesis, heterocycle synthesis, and the ligation or modification of biopolymers. The most prominent fields of application today are azide-alkyne cycloadditions and different variants of the Staudinger ligation. The azido group can also be used as a protecting group for primary amines, especially in sensitive substrates such as complex carbohydrates or peptide nucleic acids (PNA) and coordination compounds, as azides are stable to alkene metathesis conditions.

PEG AZIDES FOR CLICK CHEMISTRY

PEG polymers contain numerous inherently favorable biological characteristics including high water solubility and a lack of toxicity and immunogenicity. Thus, the chemical modification of biologically active compounds, such as peptides, antibody fragments, enzymes, or small molecules with polyethylene glycol chains, referred to as "PEGylation", often leads to improved pharmacokinetics and biological function in many applications. Our PEG azides are ideal starting materials for the synthesis of PEG derivatives via azide-alkyne cycloaddition or Staudinger ligation.

TRIFUNCTIONAL PROBE BUILDING BLOCKS FOR CLICK CHEMISTRY

Small-molecule probes are widely used in chemical biology research for target ID/validation and the interrogation of biological systems. We have compiled a collection of trifunctional building blocks to facilitate the design and synthetic development of chemical probes. Each contains three components: a connectivity group, a reactive group, and a bio-orthogonal handle for downstream applications. Not only does the collection enable simultaneous incorporation of reactive groups, but the connectivity group (e.g. amine) can be leveraged

to prepare libraries of probe analogs, allowing the biologist to screen for the optimal probe for a given assay.

TETRAZINE/STRAINED-ALKENES FOR CLICK CHEMISTRY

The reaction of 1,2,4,5 tetrazines with strained alkenes has been applied as a rapid bio-orthogonal click chemistry reaction for biological labeling and cell detection applications among others. This reaction proceeds rapidly via an inverse electron demand [4 + 2] Diels-Alder cycloaddition to yield a stable covalent linkage without the need for a catalyst and the only byproduct is dinitrogen. When using trans-cyclooctene, this reaction is orders of magnitude faster than azide-cyclooctyne-based click chemistry and has therefore found use in applications where low concentrations of reactants are desired or faster kinetics are needed.

COPPER-FREE CLICK CHEMISTRY

Cu-free cycloadditions offer efficient ligation reactions useful for a variety of bioconjugation applications. When working with live cells these reactions offer the advantage of not having the cytotoxicity associated with Cu-catalyzed cycloadditions. We offer a suite of cyclooctynes, tetrazines and strained-alkene reagents for use in a variety of applications.

STAUDINGER LIGATION

The reaction between an azide and a phosphine forming an aza-ylide was first reported in 1919 by Nobel Prize laureate Herrmann Staudinger. It has found widespread application in chemical synthesis and is valuable as a highly chemoselective ligation method for the preparation of bioconjugates. Both reactive functionalities involved in the Staudinger ligation reaction are bio-orthogonal and readily combine at room temperature in aqueous environments. These conditions make it possible to exploit the Staudinger ligation in complex cellular and organismal environments in the investigation of various processes in chemical biology. Our portfolio offers phosphine ligands for your various Staudinger ligation and conjugation applications.

744867

(1R,8S,9s)-Bicyclo[6.1.0]non-4-yn-9-ylmethyl N-succinimidyl carbonate
for Copper-free Click Chemistry



709492

(1S,4S,8S)-5-Benzyl-2-isobutyl-8-methoxy-1,8-dimethylbicyclo[2.2.2]octa-2,5-diene
97%



T511293

(2'S)-2'-Deoxy-2'-fluoro-5-ethynyluridine, (F-ara-EdU)
Aldrich^{CPR}



761591

(4-(1,2,4,5-Tetrazin-3-yl)phenyl)methanamine hydrochloride
95%



900750

(4-(2-(2-(2-Aminoethoxy)ethoxy)ethoxy)phenyl)(4-(prop-2-yn-1-yloxy)phenyl)methanone HCl salt
≥95%

900603

(4-(2-(2-(2-Aminoethoxy)ethoxy)phenyl)(4-(prop-2-yn-1-yloxy)phenyl)methanone
≥95%

900599

(4-(Aminomethyl)phenyl)(4-(prop-2-yn-1-yloxy)phenyl)methanone
95%

900598

(4-(Bromomethyl)phenyl)(4-(prop-2-yn-1-yloxy)phenyl)methanone
≥95%

900615

(4-Hydroxyphenyl)(4-(prop-2-yn-1-yloxy)phenyl)methanone
≥95%

764523

(E)-Cyclooct-4-enyl 2,5-dioxo-1-pyrrolidinyl carbonate

901503

(S,R,S)-AHPC-PEG₁-Alkyne
≥95%

903957

(S,R,S)-AHPC-PEG₁-azide

901517

(S,R,S)-AHPC-PEG₂-Alkyne
≥95%

904813

(S,R,S)-AHPC-PEG₂-azide

901533

(S,R,S)-AHPC-PEG₃-Alkyne
≥95%

904651

(S,R,S)-AHPC-PEG₃-azide
≥95%



901851

(S,R,S)-AHPC-PEG₄-Alkyne



901855

(S,R,S)-AHPC-PEG₅-Alkyne



901873

(S,R,S)-AHPC-PEG₆-Alkyne



909378

(S,R,S)-AHPC-PEG₆-Azide

≥95%

904864

(S,R,S)-AHPC-PEG₆-butyl azide

≥95%



714291

(S)-5-Azido-2-(Fmoc-amino)pentanoic acid

≥97.0% (HPLC)



513989

1-Azido-1-deoxy-β-D-galactopyranoside

97%



514004

1-Azido-1-deoxy-β-D-glucopyranoside



514012

1-Azido-1-deoxy-β-D-lactopyranoside

97%



901152

1-Azido-2-(2-(2-ethoxyethoxy)ethoxy)ethane

≥95%



901132

1-Azido-2-(2-(2-methoxyethoxy)ethoxy)ethane



765953

1,11-Diazido-3,6,9-trioxaundecane



901136

1,17-Diazido-3,6,9,12,15-pentaoxaheptadecane



17758

11-Azido-3,6,9-trioxaundecan-1-amine

technical, ≥90% (GC)



901155

17-Azido-3,6,9,12,15-pentaoxaheptadecan-1-amine



ALD00024

2-(2-Propyn-1-yloxy)ethanesulfonyl fluoride

96%



679011

2-(Diphenylphosphino)terephthalic acid 1-methyl 4-pentafluorophenyl diester

97%



900858

2-(Prop-2-yn-1-yloxy)-4-(3-(trifluoromethyl)-3H-diazirin-3-yl)benzoic acid

≥95%



670995

2-Acetamido-2-deoxy-β-D-glucopyranosyl azide

≥98% (HPLC)



712795

2-Azido-2-deoxy-D-glucose

≥97.0% (HPLC)



ALD00160

2-Thiophenesulfonyl fluoride

95%



ALD00148

2,3-Dihydro-1,4-benzodioxin-6-sulfonyl fluoride

95%



919950

3-(((1,1'-Biphenyl]-4-ylmethyl)thio)-6-methyl-1,2,4,5-tetrazine

>98%



900614

3-(4-(Prop-2-yn-1-yloxy)benzoyl)benzoic acid

≥95%

690104

3-(4-Azidophenyl)propionic acid

≥97.0% (T)



900605

3-(Bromomethyl)-5-((trimethylsilyl)ethynyl)benzenesulfonyl fluoride

≥95%



ALD00168

3-(Fluorosulfonyl)-2-thiophenecarboxylic acid methyl ester

95%



762016

3-Azido-1-propanamine

≥95%



776130

3-Azido-1-propanol

≥96%



900859

3-Bromo-5-((trimethylsilyl)ethynyl)benzenesulfonyl fluoride

≥95%



498289

3-Ethynylaniline

≥98%



ALD00094

3-Methoxybenzenesulfonyl fluoride



ALD00364

4-(2-Bromoacetyl)benzenesulfonyl fluoride

95% (GC)



900602

4-(4-(Prop-2-yn-1-yloxy)benzoyl)benzoic acid

≥95%



ALD00176

4-(Acetylamino)benzenesulfonyl fluoride

95%



404764

4-Acetamidobenzenesulfonyl azide

97%



359556

4-Azidoaniline hydrochloride

97%



340138

4-Carboxybenzenesulfonazide

97%



481122

4-Ethynylaniline

97%



ALD00130

4-Methoxybenzenesulfonyl fluoride

95%



152854

4-Methoxybenzyloxycarbonyl azide

95%



ALD00132

4-Phenoxybenzenesulfonyl fluoride

95%



900613

5-(4-(4-(Prop-2-yn-1-yloxy)benzoyl)phenoxy)pentanoic acid

≥95%



ALD00158

5-Chloro-2-thiophenesulfonyl fluoride

95%

809705

5-DBCO-PEG₄-dUTP, 10mM Aqueous Solution



909475

5-Ethynyl uridine

≥95%



T511307

5-Ethynyl-2'-deoxycytidine, (EdC)

Aldrich^{CPR}



776173

5-Norbornene-2-acetic acid succinimidyl ester

97%



712752

6-Azido-6-deoxy-D-galactose

≥98.0% (HPLC)



712760

6-Azido-6-deoxy-D-glucose

≥95% (HPLC)



8.51097

6-Azido-hexanoic acid

Novabiochem®



797685

ADIBO-PEG4-acid

90% (HPLC)



901982

Alkyne Agarose



764205

Alkyne-PEG4-maleimide

90% (HPLC)



764167

Alkyne-PEG5-acid



764191

Alkyne-PEG5-N-hydroxysuccinimidyl ester



JKA4095

Alkyne-PEG5K-Alkyne

average M_n 5,000



764248

Amino-PEG4-alkyne



900957

Azide agarose



762024

Azide-PEG3-biotin conjugate



QBD10524

Azido-dPEG[®]₁₁-amine



QBD10513

Azido-dPEG[®]₁₂-acid



QBD10505

Azido-dPEG[®]₁₂-NHS ester



QBD10569

Azido-dPEG[®]₁₂-TFP ester

>90%

QBD10525

Azido-dPEG[®]₂₃-amine



QBD10514

Azido-dPEG[®]₂₄-acid



QBD10571

Azido-dPEG[®]₂₄-TFP ester



QBD10526

Azido-dPEG[®]₃₅-amine

>90%



QBD10573

Azido-dPEG[®]₃₆-TFP ester



QBD10502

Azido-dPEG[®]₄-acid



QBD10501

Azido-dPEG[®]₄-NHS ester



QBD10567

Azido-dPEG[®]₄-TFP ester



QBD10523

Azido-dPEG[®]₇-amine



QBD10512

Azido-dPEG[®]₈-acid



QBD10503

Azido-dPEG[®]₈-NHS ester



244546

Azidomethyl phenyl sulfide

95%



349488

Azidotrimethyltin(IV)

97%



900891

Azo biotin-azide



900912

Biotin picolyl azide



QBD11811

Biotin-dPEG[®]₁₂-DBCO



764213

Biotin-PEG4-alkyne

for copper catalyzed click labeling



QBD11372

Bis-dPEG[®]₁₁-DBCO



712221

Boc-propargyl-Gly-OH

≥98.0% (HPLC)



QBD11204

Bromoacetamido-dPEG[®]₁₁-azide

QBD11223

Bromoacetamido-dPEG[®]₁₂-amido-DBCO



QBD11205

Bromoacetamido-dPEG[®]₂₃-azide



QBD11224

Bromoacetamido-dPEG[®]₂₄-amido-DBCO



QBD11217

Bromoacetamido-dPEG[®]₃-azide



QBD11221

Bromoacetamido-dPEG[®]₄-amido-DBCO



909505

C8-Alkyne-dU-CEP



212865

Copper(I) bromide

98%



205540

Copper(I) iodide

98%



326755

Copper(II) acetate

98%



C1297

Copper(II) sulfate

ReagentPlus[®], ≥99%



209198

Copper(II) sulfate pentahydrate

ACS reagent, ≥98.0%



777331

Cy3-alkyne

for copper catalyzed click labeling



777315

Cy3-azide

90% (HPLC)



777366

DBCO-Cy3

for Copper-free Click Chemistry



777374

DBCO-Cy5

for Copper-free Click Chemistry



QBD11812

DBCO-dPEG[®]₁₂-carboxyfluorescein



QBD10593

DBCO-dPEG[®]₁₂-MAL



QBD11366

DBCO-dPEG[®]₁₂-TFP ester



QBD11383

DBCO-dPEG[®]₂₄-amido-dPEG[®]₂₄-DSPE



QBD10594

DBCO-dPEG[®]₂₄-MAL

QBD11370

DBCO-dPEG[®]₂₄-TFP ester



QBD11362

DBCO-dPEG[®]₄-TFP ester



QBD11815

DBCO-TFP ester



901991

Dde biotin picolyl azide



901765

Dde biotin-azide



761516

Dibenzocyclooctyne-acid

95%, storage temp.: -20°C



761540

Dibenzocyclooctyne-amine

for Copper-free Click Chemistry



760668

Dibenzocyclooctyne-maleimide

for Copper-free Click Chemistry



761524

Dibenzocyclooctyne-N-hydroxysuccinimidyl ester

for Copper-free Click Chemistry



759902

Dibenzocyclooctyne-PEG4-acid

for Copper-free Click Chemistry



761982

Dibenzocyclooctyne-PEG4-alcohol

for Copper-free Click Chemistry



760749

Dibenzocyclooctyne-PEG4-biotin conjugate

for Copper-free Click Chemistry



760676

Dibenzocyclooctyne-PEG4-maleimide

for Copper-free Click Chemistry



764019

Dibenzocyclooctyne-PEG4-N-hydroxysuccinimidyl ester

≥90%



762040

Dibenzocyclooctyne-sulfo-N-hydroxysuccinimidyl ester

for Copper-free Click Chemistry



178756

Diphenyl phosphoryl azide

97%



910147

Fluorescein Azide

≥95%



F5312

Fmoc-(R)-propargyl-Ala-OH



F5437

Fmoc-(S)-propargyl-Ala-OH



714151

Fmoc-β-azido-Ala-OH

≥98.0% (HPLC)

808520

γ-[(6-Azidohexyl)-imido]-ATP sodium salt



808512

γ-[(Propargyl)-imido]-ATP sodium salt



900610

Hydroxyl di-benzophenone (PEG)₃ alkyne



925225

KB02yne



925144

KB05yne

≥95%



QBD10596

m-dPEG[®]₁₂-DBCO



QBD10540

m-dPEG[®]₂₄-Azide (Azido-m-dPEG[®]₂₄)



689807

Methoxypolyethylene glycol azide

PEG average M_n 2,000



689475

Methoxypolyethylene glycol azide



900914

Methyltetrazine-NHS ester

≥95%



JKA13019

mPEG12-Azide



JKA3177

mPEG5K-Alkyne

average M_n 5,000



8.51021

N_3 -(PEG)₇-COOH (33 atoms)

Novabiochem®



745073

N -[(1R,8S,9s)-Bicyclo[6.1.0]non-4-yn-9-ylmethyloxycarbonyl]-1,8-diamino-3,6-dioxaoctane

for Copper-free Click Chemistry



708925

N -[[2-(Diphenylphosphino)phenyl]methylene]-3-methyl-L-valine sodium salt

95%



923818

N -(But-3-yn-1-yl)-2-(((2-oxo-2H-chromen-7-yl)oxy)methyl)acrylamide



900915

N -Azidoacetylgalactosamine-tetraacylated



900917

N -Azidoacetylmannosamine-tetraacylated

95%



778923

N -Boc-4-pentyne-1-amine

≥95% (GC)



JKA5086

N_3 -PEG3500-NHS

average M_n 3,500

JKA5239

N_3 -PEG5K-NH₂

TFA Salt, average M_n 5,000



JKA5088

N3-PEG5K-NHS

average M_n 5,000



808490

N⁶-Propargyl-ATP sodium salt



76318

O-(2-Aminoethyl)-O'-(2-azidoethyl)heptaethylene glycol

≥90% (oligomer purity)



77787

O-(2-Aminoethyl)-O'-(2-azidoethyl)nonaethylene glycol

≥90% (oligomer purity)



76172

O-(2-Aminoethyl)-O'-(2-azidoethyl)pentaethylene glycol

≥90% (oligomer purity)



71613

O-(2-Azidoethyl)-O-[2-(diglycolyl-amino)ethyl]heptaethylene glycol

≥90% (oligomer purity)



689440

O-(2-Azidoethyl)heptaethylene glycol

≥95% (oligomer purity)



901767

PC biotin-PEG3-NHS ester



807737

Photo-reactive Clickable cis-Sterol Probe



756598

Poly(ethylene glycol) bisazide

average M_n 1,100



445878

Poly(ethylene glycol) dimethyl ether

average M_n ~250



445908

Poly(ethylene glycol) dimethyl ether

average M_n ~2,000



445894

Poly(ethylene glycol) dimethyl ether

average M_n ~1,000



445886

Poly(ethylene glycol) dimethyl ether

average M_n ~500, contains 100 ppm BHT as stabilizer



305413

Poly(ethylene glycol) distearate

average M_n ~930



689696

Polyoxyethylene bis(azide)

average M_n 2,000



904880

Pomalidomide- C_6 -PEG₁- C_3 -PEG₁-butyl azide

≥95%



904686

Pomalidomide- C_6 -PEG₃-butyl azide

≥95%



901523

Pomalidomide-PEG₁-Alkyne

≥98%

903825

Pomalidomide-PEG₁-azide



901529

Pomalidomide-PEG₂-Alkyne

≥95%



903833

Pomalidomide-PEG₂-azide



901531

Pomalidomide-PEG₃-Alkyne

≥95%



904678

Pomalidomide-PEG3-azide



909386

Pomalidomide-PEG₄-Azide

≥95%



901834

Pomalidomide-PEG₅-Alkyne

≥95%



909394

Pomalidomide-PEG₅-azide

≥95%



909408

Pomalidomide-PEG₆-azide

≥95%



903434

Pomalidomide-PEG₆-butyl azide

≥95%



764221

Propargyl-N-hydroxysuccinimidyl ester



901566

Propargyl-PEG₂-acid



902667

Propargyl-PEG₆-acid



P50919

Propargylamine hydrochloride

95%



760706

Sulfo-dibenzocyclooctyne-biotin conjugate

for Copper-free Click Chemistry



790435

TCO PEG4 succinimidyl ester



790451

TCO-amine HCl salt



790443

TCO-PEG3-maleimide



900927

TCO-PNB ester

≥95%



QBD11371

Tetra(-dPEG[®]₁₁-DBCO)PE

651664

Tetrabutylammonium azide



172405

Tetraethylene glycol dimethyl ether

≥99%



473839

Tetrafluoro-2-(tetrafluoro-2-iodoethoxy)ethanesulfonyl fluoride

97%



900913

Tetrazine-PEG5-NHS ester

≥95%



678937

Tris[(1-benzyl-1H-1,2,3-triazol-4-yl)methyl]amine

97%



762342

Tris(3-hydroxypropyltriazolylmethyl)amine

95%



900331

VPhos

Chemical Biology Tools



We make ingenuity accessible for you so you can focus on bridging the gap between chemistry and biology. Breakthrough in your work and lead the scientific community into an emerging field backed by our best-in-class solutions and industry leadership.

DEXTERITY KITS

Dexterity Kits are an easy, all-in-one method to perform high sensitivity proximity labeling for any protein as long as there is a known antibody or small molecule specific for their protein of interest (POI). These protein labeling kits allow you to perform precise micromapping within 4 nm of your POI. Dexterity Kits provide:

- Facile incorporation of small molecules as an amide linkage, either with an amine or acid group
- Short labeling radius
- Benign method of activation (visible light)
- Catalytic signal amplification

DNA-ENCODED LIBRARIES (DELS)

DNA Encoded Fragment Library

The fragment DELs from our partner DyNABind provides an entire screening library in a single tube, making your drug discovery process faster, more effective, and less expensive. We've lowered the barriers to DyNABind DEL technology to provide:

- Off-the-shelf, affordable access to DEL technology
- Dynamic fragment library for a revolutionary approach to screening with DELs
- High-level quality control of every fragment component maximizes data reliability and validation of good hits
- Rule-of-Three used in library design ensures compounds are in favorable fragment space with good ligand efficiency and plenty of room for optimization
- Ability to perform and validate initial DEL screening internally before engaging service provider
- A library with maximized diversity, ready to deploy against nearly any druggable target

10 Million Compound DNA-Encoded Library (DEL)

This DNA-encoded library from our partner DyNABind contains a library of 10 million small molecule compounds each tagged with a DNA barcode. This DEL provides:

- 10 Million compound, off-the-shelf, affordable DEL
- Fits in a single microcentrifuge tube
- No sophisticated robotics required to use the kit
- Rapid assay by binding, washing, PCR, and next gen sequencing
- Free analysis on our website portal
- Structures are revealed for 50 hits or up to 60 with ties at no additional charge
- The label license allows any use of hits in research and development or manufacturing at no additional charge

CHEMICAL PROBES AND TOOLS

Probe Building Blocks: Design Your Own Probe

With our selection of reactive groups, scaffolds, linkers and tags, you can design probes to include functionalities compatible for:

- Target engagement
- Enrichment
- Fluorescence
- Bioorthogonal chemistries

Target-Based Probes: Selective and Characterized

Choose from probes with high-specificity for one target or subset of a protein to provide insight into biological processes, protein activity and localization, and cell signaling networks.

Bioorthogonal Reporter Tags: Investigate Without Interference

Probes containing an alkyne, azide or tetrazine handle are paired with bioorthogonally compatible fluorescent or biotinylated tags

Baseclick EdU Cell Proliferation Monitoring Kits: Rapid Quantification of Cell Growth

Detect cell proliferation especially for *in vivo* experiments with the EdU nucleoside:

- Nontoxic to animals
- Directly incorporated into replicating DNA
- Contains an alkyne handle for click chemistry labeling with azide fluorescent probes

Boger Serine Hydrolase Inhibitors: An Irreversible Bind

Access a library of molecules from the Dale Boger lab with broad spectrum inhibition of the serine hydrolase family. Tune the compounds to a desired reactivity and selectivity through functional group attachment at an amine site and develop inhibitors to specific subclasses of serine hydrolase enzymes.

Quorum Sensing Modulators: Interfere with Bacterial Signaling

Quorum sensing is a chemical communication mechanism used by many common bacteria. New quorum sensing modulators developed by the Helen Blackwell laboratory are some of the most potent inhibitors and activators reported for Gram-negative species.

BIOCONJUGATION

Crosslinkers: A Variety of Linkers for a Variety of Biological Needs

We offer crosslinkers that vary in length, solubility and functional group reactivity.

- Common bioconjugation linkers including NHS esters for amines or maleimide for thiols
- Improved thiol coupling with APN reactivity
- Enhanced solubility with sulfo-NHS esters and PEGylated linkers
- Cleavable crosslinkers also available

We also provide crosslinkers designed for click chemistry reactivity.

- Azide and alkyne linkers for copper click chemistry
- Dibenzocyclooctyne (DBCO), azide, tetrazine or transcyclooctyne for copper-free click chemistry

Potassium Acyltrifluoroborates (KATs): A New Approach to Bioconjugation

As a unique class of functional groups, KATs:

- Offer innovative approaches to protein conjugation and hydrogel formation
- Undergo rapid, chemoselective amide-forming reactions under aqueous conditions without the need for activating agents or protecting groups

Late Stage Conjugation: Native Chemical Tagging of Bioactive Small Molecules

We offer Baran Diversinate crosslinkers with a metal sulfinate on one end to attach directly to otherwise inert C-H bonds and an azide on the other end for attaching to alkynes. We offer various alkyne and strained alkyne crosslinkers for attachment to the azide crosslinker.

QBD10501

Azido-dPEG[®]₄-NHS ester



17758

11-Azido-3,6,9-trioxaundecan-1-amine

technical, ≥90% (GC)



908401

1-Methyl-7-nitroisatoic anhydride



802409

7-Azido-4-Methylcoumarin

97%



QBD10200

NHS-dPEG[®]₄-biotin



QBD10503

Azido-dPEG[®]₈-NHS ester



736678

Tetra(ethylene glycol) dithiol

97%



A-PLSC010

AnteoBind™ Biosensor



QBD10211

m-dPEG[®]₄-NHS ester



QBD10109

Acid-dPEG[®]₅-NHS ester



900606

Fmoc-Trp-BODIPY

≥95%



QBD10502

Azido-dPEG[®]₄-acid



767751

2-{2-[2-(2-Mercaptoethoxy)ethoxy]ethoxy}ethanol

97%



92893

3,6,9-Trioxaundecanedioic acid

technical, ≥70% (T)



76318

O-(2-Aminoethyl)-O'-(2-azidoethyl)heptaethylene glycol

≥90% (oligomer purity)



900572

Biotinylated isoxazole

95%



905283

(6-Aminoethyl)triphenylphosphonium bromide hydrobromide

≥95%



QBD10175

m-dPEG[®]₄-amine



QBD10249

Amino-dPEG[®]₄-OH



QBD11815

DBCO-TFP ester

672688

O-(2-Carboxyethyl)-O'-(2-mercaptoethyl)heptaethylene glycol

≥95% (oligomer purity)



A-VMPAKMP

Universal Coupling Kit



QBD11217

Bromoacetamido-dPEG[®]₃-azide



905267

(6-Bromoethyl)triphenylphosphonium bromide

≥95%



QBD11812

DBCO-dPEG[®]₁₂-carboxyfluorescein



QBD10067

Amino-dPEG[®]₆-acid



07969

O-(2-Aminoethyl)polyethylene glycol 3,000

M_p 3,000



689440

O-(2-Azidoethyl)heptaethylene glycol

≥95% (oligomer purity)



QBD10567

Azido-dPEG[®]₄-TFP ester



QBD11100

Biotin-dPEG[®]₃-oxyamine HCl



QBD10314

MAL-dPEG[®]₂₄-NHS ester



QBD11028

MAL-dPEG[®]₁₂-DSPE



QBD10278

m-dPEG[®]₈-amine



QBD10505

Azido-dPEG[®]₁₂-NHS ester



QBD11221

Bromoacetamido-dPEG[®]₄-amido-DBCO



QBD10127

Acid-dPEG[®]₁₃-NHS ester



QBD11811

Biotin-dPEG[®]₁₂-DBCO



QBD10569

Azido-dPEG[®]₁₂-TFP ester

>90%



QBD10198

NHS-dPEG[®]₁₂-biotin



689777

O-[N-(3-Maleimidopropionyl)aminoethyl]-O'-[3-(N-succinimidyloxy)-3-oxopropyl]heptacosaeethylene glycol

≥90% (oligomer purity)

76172

O-(2-Aminoethyl)-O'-(2-azidoethyl)pentaethylene glycol

≥90% (oligomer purity)

QBD10774

NHS-dPEG[®]₂₄-biotin

QBD10219

Biotin-dPEG[®]₄-hydrazide

QBD10277

Amino-dPEG[®]₈-acid

QBD11167

DOTA-tris(acid)-amido-dPEG[®]₁₁-Maleimide

712515

O-(3-Carboxypropyl)-O'-[2-(3-mercaptopropionylamino)ethyl]-polyethylene glycol

M_w 3000

A-LMPAKMM

Activation Kit For Multiplex Microspheres

QBD10201

Biotin-dPEG[®]₃-MAL

QBD10593

DBCO-dPEG[®]₁₂-MAL

QBD10523

Azido-dPEG[®]₇-amine

QBD10374

SPDP-dPEG[®]₄-NHS ester

QBD10784

Biotin-dPEG[®]₁₁-azide

689882

O-(2-Aminoethyl)-O'-[2-(biotinylamino)ethyl]octaethylene glycol

≥95% (oligomer uniformity)

71613

O-(2-Azidoethyl)-O-[2-(diglycolyl-amino)ethyl]heptaethylene glycol

≥90% (oligomer purity)

JKA12021

Propionic acid-PEG4-Propionic acid

83060

tert-Butyl 12-amino-4,7,10-trioxadodecanoate

technical, ≥80% (T)

QBD10317

Amino-dPEG[®]₂₄-acid

QBD11362

DBCO-dPEG[®]₄-TFP ester

QBD10196

Biotin-dPEG[®]₁₁-NH₂

QBD10551

MAL-dPEG[®]₄-TFP ester

70023

O-(2-Aminoethyl)-O'-[2-(Boc-amino)ethyl]hexaethylene glycol

≥90% (oligomer purity)

QBD10512

Azido-dPEG[®]₈-acid

QBD10262

m-dPEG[®]₁₂-NHS ester



QBD11171

DOTA-tris(acid)-amido-dPEG[®]₂₃-Maleimide



QBD11155

DOTA-tris(TBE)-amido-dPEG[®]₄-TFP ester



77787

O-(2-Aminoethyl)-O'-(2-azidoethyl)nonaethylene glycol
≥90% (oligomer purity)



QBD10319

m-dPEG[®]₂₄-MAL



712523

O-(3-Carboxypropyl)-O'-[2-(3-mercaptopropionylamino)ethyl]-polyethylene glycol
M_w 5000



QBD10525

Azido-dPEG[®]₂₃-amine



QBD11160

DOTA-tris(acid)-amido-dPEG[®]₄-TFP ester



QBD10800

m-dPEG[®]₈-Lipoamide



900751

Biotinylated-D-lysine TFA salt



QBD10260

m-dPEG[®]₈-NHS ester



QBD10009

Biotin-dPEG[®]₄-TFP ester



QBD10318

m-dPEG[®]₂₄-amine



QBD11372

Bis-dPEG[®]₁₁-DBCO



QBD11102

Biotin-dPEG[®]₁₁-oxyamine HCl



QBD10119

Acid-dPEG[®]₉-NHS ester



QBD10524

Azido-dPEG[®]₁₁-amine



QBD10194

NHS-S-S-dPEG[®]₄-biotin (cleavable)

QBD11150

DOTA-tris(acid)-amido-dPEG[®]₃-bromoacetamide



QBD10289

m-dPEG[®]₁₂-MAL



QBD10826

Biotin-dPEG[®]₇-NH₂



QBD11223

Bromoacetamido-dPEG[®]₁₂-amido-DBCO



QBD10304

m-dPEG[®]₂₄-NHS ester



QBD11166

DOTA-tris(TBE)-amido dPEG[®]₁₁-Maleimide



QBD11370

DBCO-dPEG[®]₂₄-TFP ester



QBD10785

Biotin-dPEG[®]₂₃-MAL



QBD11371

Tetra(-dPEG[®]₁₁-DBCO)PE



77090

O-(2-Aminoethyl)-O'-[2-(Boc-amino)ethyl]decaethylene glycol

≥90% (oligomer purity)



QBD10215

Bis-MAL-dPEG[®]₃



QBD10240

Amino-dPEG[®]₈-OH



QBD10819

MAL-dPEG[®]₁₁-Lipoamide



QBD10181

dPEG[®]₄-SATA (S-acetyl-dPEG[®]₄-NHS ester)



QBD10786

Biotin-dPEG[®]₂₃-NH₂



QBD10954

Bis-dPEG[®]₁₃-NHS ester



QBD10822

Biotin-dPEG[®]₁₁-Lipoamide



QBD10825

Biotin-dPEG[®]₇-azide



QBD10306

m-dPEG[®]₁₂-TFP ester



LIGHTOX14

LightOx[™]14

≥98% (HPLC)

QBD10184

dPEG[®]₈-SATA (S-acetyl-dPEG[®]₈-NHS ester)



QBD10406

MAL-dPEG[®]₄-(m-dPEG[®]₁₂)₃



QBD10745

m-dPEG[®]₄-MAL



QBD10807

Lipoamido-dPEG[®]₈-acid



689998

O-[2-(Biotinylamino)ethyl]-O'-(2-carboxyethyl)undecaethylene glycol
≥95% (oligomer purity)



671592

O-(2-Aminoethyl)-O'-(2-carboxyethyl)polyethylene glycol 5,000 hydrochloride
M_p 5,000



671487

O-(2-Aminoethyl)-O'-(2-carboxyethyl)polyethylene glycol hydrochloride
M_p 3,000



QBD10852

dPEG[®]₁₂-SATA (S-acetyl-dPEG[®]₁₂-NHS ester)



QBD10361

Diamido-dPEG[®]₁₁-diamine



QBD11383

DBCO-dPEG[®]₂₄-amido-dPEG[®]₂₄-DSPE



QBD10288

m-dPEG[®]₁₂-amine



QBD10868

Amino-dPEG[®]₂₄-OH



79141

O-(2-Aminoethyl)-O'-[2-(Boc-amino)ethyl]octaethylene glycol

≥90% (oligomer purity)



QBD10313

Fmoc-N-amido-dPEG[®]₂₄-acid



QBD11366

DBCO-dPEG[®]₁₂-TFP ester



QBD10787

Biotin-dPEG[®]₂₃-azide



QBD10195

Biotin-dPEG[®]₁₁-MAL



QBD10594

DBCO-dPEG[®]₂₄-MAL



QBD10540

m-dPEG[®]₂₄-Azide (Azido-m-dPEG[®]₂₄)



QBD10401

NHS-dPEG[®]₄-(m-dPEG[®]₁₂)₃-ester

QBD10397

Bis-MAL-dPEG[®]₁₁



QBD10526

Azido-dPEG[®]₃₅-amine

>90%



QBD10596

m-dPEG[®]₁₂-DBCO



QBD11200

Bromoacetamido-dPEG[®]₄-TFP ester



QBD10170

Amino-dPEG[®]₁₂-OH



QBD10514

Azido-dPEG[®]₂₄-acid



QBD10907

Amino-dPEG[®]₃₆-acid



QBD11152

DOTA-tris(acid)-amido-dPEG[®]₁₁-bromoacetamide



QBD10746

m-dPEG[®]₈-MAL



QBD11005

Fmoc-N-amido-dPEG[®]₈-TFP ester



LIGHTOX19

LightOx[™]19

≥95% (HPLC)



LIGHTOX58

LightOx[™]58

≥95% (HPLC)



QBD10994

Fmoc-N-amido-dPEG[®]₄-NHS ester



QBD10492

Aminoxy-dPEG[®]₁₂-amido-dPEG[®]₁₂-(m-dPEG[®]₁₁)₃



QBD10808

Lipoamido-dPEG[®]₁₂-acid



QBD11303

MAL-dPEG[®]₂₄-amido-dPEG[®]₂₄-TFP ester



LIGHTOX72

LightOx[™]72

≥98% (HPLC)



QBD10008

Biotin-dPEG[®]₁₂-TFP ester



QBD11204

Bromoacetamido-dPEG[®]₁₁-azide



QBD10814

Lipoamido-dPEG[®]₁₂-TFP ester

QBD11205

Bromoacetamido-dPEG[®]₂₃-azide



QBD11224

Bromoacetamido-dPEG[®]₂₄-amido-DBCO



QBD10376

SPDP-dPEG[®]₈-NHS ester



QBD10513

Azido-dPEG[®]₁₂-acid



LIGHTOX17

LightOx[™]17

≥98% (HPLC)



QBD10573

Azido-dPEG[®]₃₆-TFP ester



QBD10075

4-formyl-benzamido-dPEG[®]₁₂-EDA-MAL



QBD10552

MAL-dPEG[®]₈-TFP ester



QBD10801

m-dPEG[®]₁₂-Lipoamide



QBD11414

Tetra(-amido-dPEG[®]₂₃-MAL)pentaerythritol



QBD10203

TFP-dPEG[®]₄-biotinidase resistant biotin



QBD10554

MAL-dPEG[®]₂₄-TFP ester



QBD11135

Phthalimidooxy-dPEG[®]₁₂-NHS ester



QBD10571

Azido-dPEG[®]₂₄-TFP ester



QBD11157

DOTA-tris(TBE)-amido-dPEG[®]₁₂-TFP ester



QBD11162

DOTA-tris(acid)-amido-dPEG[®]₁₂-TFP ester



QBD11384

DOTA-tris(acid)-amido-dPEG[®]₂₄-amido-dPEG[®]₂₄-DSPE



QBD10011

Phthalimidooxy-dPEG[®]₄-NHS ester



QBD10015

Bis-dPEG[®]₅-PPF ester



QBD10081

4-formyl-benzamido-dPEG[®]₁₂-TFP ester

QBD10204

TFP-dPEG[®]₁₂-biotinidase resistant biotin



QBD10007

Biotin-dPEG[®]₂₄-TFP ester



QBD10378

SPDP-dPEG[®]₁₂-NHS ester



QBD11341

Hydroxy-dPEG[®]₄-TFP ester



QBD10995

Fmoc-N-amido-dPEG[®]₈-NHS ester



QBD10996

Fmoc-N-amido-dPEG[®]₁₂-NHS ester



QBD11170

DOTA tris(TBE)-amido-dPEG[®]₂₃-Maleimide



QBD11435

Tetra(-amido-dPEG[®]₁₁-MAL)pentaerythritol



QBD10303

m-dPEG[®]₂₄-TFP ester



QBD10287

Amino-dPEG[®]₁₂-acid



LIGHTOX21

LightOx™21

≥95% (HPLC)



LIGHTOX23

LightOx™23

≥95% (HPLC)



QBD11000

Fmoc-N-amido-dPEG[®]₄-TFP ester



QBD11008

Fmoc-N-amido-dPEG[®]₃₆-TFP ester



QBD11202

Bromoacetamido-dPEG[®]₁₂-TFP ester



QBD11305

Amino-dPEG^{®24}-amido-dPEG^{®24}-acid



QBD10553

MAL-dPEG^{®12}-TFP ester



QBD10804

m-dPEG^{®24}-Lipoamide



QBD10983

Bis-dPEG^{®9}-PFP ester



QBD11007

Fmoc-N-amido-dPEG^{®24}-TFP ester

LIGHTOX26

LightOx™26

≥95% (HPLC)



QBD11086

m-dPEG^{®13}-NHS ester



QBD11093

MAL-dPEG^{®24}-amido-dPEG^{®24}-DSPE



QBD11163

DOTA-tris(acid)-amido-dPEG^{®24}-TFP ester



QBD10631

Bis-MAL-Lysine-dPEG^{®4}-TFP ester



QBD11373

Methoxy-dPEG^{®25}-DSPE



QBD10379

SPDP-dPEG^{®24}-NHS ester



QBD10642

Lipoamido-dPEG^{®6}-TFP ester



LIGHTOX22

LightOx™22

≥95% (HPLC)



QBD10555

MAL-dPEG[®]₃₆-TFP ester



QBD11006

Fmoc-N-amido-dPEG[®]₁₂-TFP ester



QBD11087

m-dPEG[®]₁₃-TFP ester



QBD11158

DOTA-tris(TBE)-amido-dPEG[®]₂₄-TFP ester



QBD11345

Hydroxy-dPEG[®]₁₂-TFP ester



QBD11349

Hydroxy-dPEG[®]₂₄-TFP ester



QBD11385

Carboxyfluorescein-dPEG[®]₂₄-amido-dPEG[®]₂₄-DSPE



QBD11386

Biotin-dPEG[®]₄ amido-dPEG[®]₂₄-amido-dPEG[®]₂₄-DSPE



LIGHTOX25

LightOx™25

≥95% (HPLC)



QBD11095

m-dPEG[®]₂₅-amido-dPEG[®]₂₄-DSPE



QBD11203

Bromoacetamido-dPEG[®]₂₄-TFP ester

QBD11388

Mal-dPEG[®]₂₄-amido-dPEG[®]₂₄-amido-dPEG[®]₂₄-DSPE



QBD10984

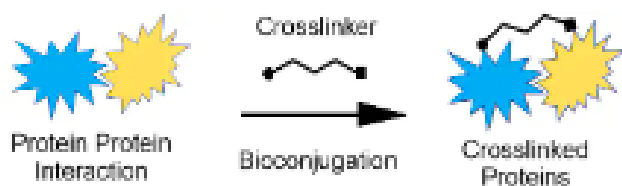
Bis-dPEG[®]₁₃-PFP ester



QBD11338

Bis-Bromoacetamido-dPEG[®]₁₁

Crosslinkers



We are proud to offer you a wide variety of linkers and crosslinkers for all your biochemistry needs. Our protein reagents are suitable for stabilizing structures in protein-protein, protein-peptide and peptide/protein-small molecule interactions, in immobilizing proteins onto a solid support for assays or purification, as well as for various peptide-nucleic acid and nucleic acid-nucleic acid conjugations, among many other applications. Explore our extensive portfolio of versatile linkers and crosslinkers to find the most efficient and optimal reagent for your scientific breakthroughs.

HOMOBIFUNCTIONAL AND HETEROFUNCTIONAL LINKERS

Our homobifunctional linkers and heterofunctional linkers contain diverse functional groups, such as primary amines, sulfhydryls, acids, alcohols and bromides. Many of our linkers are functionalized with maleimide (sulfhydryl reactive) and succinimidyl ester (NHS) or isothiocyanate (ITC) groups that react with amines. We also offer a broad selection of mono-protected (Boc, Fmoc, and Cbz) linkers.

CROSSLINKING REAGENTS

Crosslinking reagents are molecules containing two or more reactive ends that are 'activated' to attach themselves to certain functional groups (e.g., amines and sulfhydryls) via a covalent bond. The usefulness of crosslinking chemistry is realized in applications such as:

- protein structure and/or function determination
- protein or other biomolecule immobilization
- general biomolecule-biomolecule conjugation
- antibody-drug conjugates

Some of the most common crosslinkers contain maleimide, sulfhydryl reactive groups, or succinimidyl esters (often referred to as NHS esters), which react with amines. Our portfolio comprises all functional groups with a variety of linker lengths and solubilities. Sulfosuccinimidyl esters allow for more water-soluble crosslinkers which can be useful when working with large biomolecules that are not amenable to organic solvents. Our crosslinkers with cleavable linkers (e.g., disulfides) are optimal for applications where a permanent linkage is not desired.

SELECTING CROSSLINKERS

When selecting a crosslinker for your application it is important to consider several factors, such as the reagent's chemical and physical properties, the functional groups it targets for coupling, its length, its molecular size, its water solubility, and its cleavability:

Chemical Specificity: One of the most fundamental aspects of crosslinker design is whether the reagent is homobifunctional or heterobifunctional. Homobifunctional compounds will react at both ends with the same target functional group, thus forming a covalent crosslink between two molecules using the same type of bond. They are used in single-step reactions for polymerization of like functional groups, in the creation of intramolecular crosslinks, and in the evaluation of protein

interactions. Heterobifunctional reagents have two different end groups, allowing for each end to react with a different functional group. They are used for controlled two-step reactions to avoid undesirable cross-reactions and polymerization.

Functional Groups Targeted: Amines, thiols, and hydroxyls are the main nucleophilic groups, and under the right conditions, they react directly with the electrophilic reactive groups present on many bioconjugation reagents. In contrast, functional groups consisting of carboxylates, aldehydes, organic phosphates, and reactive hydrogen sites require special activation agents or secondary coupling agents before they form covalent bonds with another functional group.

Crosslinker Length: The dimensions or overall linear length of the target molecule before and after conjugation should be considered when choosing a crosslinker. The spacer arm or cross-bridge of the reagent mainly determines the molecular length of the resulting compound. This length can be determined by use of certain molecular modeling software programs.

Cleavable vs. Noncleavable Crosslinkers: If interacting biomolecules that have been captured by crosslinking subsequently need to be isolated and analyzed, it is important for the spacer arm of the crosslinker to be cleavable. Additionally, cleavable linkers are used as transfer reagents for the study of interacting proteins. Our disulfides are some of the most common cleavable crosslinkers. Our portfolio also offers cleavable esters and sulfones.

Hydrophobic vs Hydrophilic Crosslinkers: In some applications, reagent hydrophobicity can be an advantage, especially when an application involves penetration of cell membranes. Hydrophobic reagents without strongly polar groups can quickly pass through membranes and crosslink or label internal cell proteins. However, hydrophobic compounds that contain one or more negatively charged sulfo-NHS groups will be restricted to reacting with the proteins on the outer membrane surface of cells due to their negative charge. The ability to switch between cell surface labeling and internal cellular labeling by choosing charged or uncharged reagents is one benefit of using hydrophobic crosslinkers.

744867

(1R,8S,9s)-Bicyclo[6.1.0]non-4-yn-9-ylmethyl N-succinimidyl carbonate
for Copper-free Click Chemistry



40421

1,11-Diamino-3,6,9-trioxaundecane
≥98.0% (GC)



765953

1,11-Diazido-3,6,9-trioxaundecane



17758

11-Azido-3,6,9-trioxaundecan-1-amine
technical, ≥90% (GC)



30953

15-(Boc-amino)-4,7,10,13-tetraoxapentadecanoic acid
purum, ≥97.0% (TLC)



767751

2-{2-[2-(2-Mercaptoethoxy)ethoxy]ethoxy}ethanol
97%



458910

2-(Boc-amino)ethanethiol

97%



17354

2-(Boc-amino)ethyl bromide

≥97.0% (GC)



445185

2-(Fmoc-amino)ethanol

97%



74291

2-(Fmoc-amino)ethyl bromide

≥95.0% (AT)



41314

2-Maleimidoethyl mesylate

technical, ≥90.0% (HPLC)



P3415

3-(2-Pyridyldithio)propionic acid N-hydroxysuccinimide ester

≥95%, powder



906298

3-(4-Bromophenyl)-3-(trifluoromethyl)-3H-diazirine



416444

3-(Boc-amino)-1-propanol

97%



17356

3-(Boc-amino)propyl bromide

≥96.0% (GC)



M2786

3-Maleimidobenzoic acid N-hydroxysuccinimide ester

crystalline



D3669

3,3'-Dithiodipropionic acid di(N-hydroxysuccinimide ester)

powder



55665

3,4-Dihydro-2H-pyran-2-methanol

≥98.5% (GC)



92893

3,6,9-Trioxaundecanedioic acid

technical, ≥70% (T)



55262

4-[4-(1-Hydroxyethyl)-2-methoxy-5-nitrophenoxy]butyric acid

≥98.0% (HPLC)

771058

4-(4'-Hydroxyphenylazo)benzoic acid

97%



900602

4-(4-(Prop-2-yn-1-yloxy)benzoyl)benzoic acid

≥95%



15302

4-(Boc-amino)-1-butanol

≥98.0% (GC)



90303

4-(Boc-amino)butyl bromide

technical, ≥90% (AT)



43081

4-(Diphenylhydroxymethyl)benzoic acid

≥98.0% (HPLC)



382639

4-(Hydroxymethyl)benzoic acid

99%



95887

4-(Z-Amino)-1-butanol

≥98.0% (HPLC)



A44150

4-Aminobutyraldehyde diethyl acetal

90%, technical grade



QBD10075

4-formyl-benzamido-dPEG[®]₁₂-EDA-MAL



QBD10081

4-formyl-benzamido-dPEG[®]₁₂-TFP ester



C11804

4-Sulfamoylbenzoic acid

97%



671630

4,7,10,13,16,19,22,25,32,35,38,41,44,47,50,53-Hexadeca-oxa-28,29-dithiahexapentacontanedioic acid di-N-succinimidyl ester

≥94% (oligomer purity)



47299

5-(Fmoc-amino)-1-pentanol

≥98.0% (HPLC)



15304

6-(Boc-amino)-1-hexanol

≥98.0% (GC)



89171

6-(Boc-amino)hexyl bromide

≥97.0% (GC)



568600

6-Maleimidohexanoic acid N-hydroxysuccinimide ester

98%



QBD10127

Acid-dPEG[®]₁₃-NHS ester



QBD10109

Acid-dPEG[®]₅-NHS ester



QBD10119

Acid-dPEG[®]₉-NHS ester



764205

Alkyne-PEG4-maleimide

90% (HPLC)

764167

Alkyne-PEG5-acid



764191

Alkyne-PEG5-N-hydroxysuccinimidyl ester



QBD10287

Amino-dPEG[®]₁₂-acid



QBD10170

Amino-dPEG[®]₁₂-OH



QBD10317

Amino-dPEG[®]₂₄-acid



QBD11305

Amino-dPEG^{®24}-amido-dPEG^{®24}-acid



QBD10868

Amino-dPEG^{®24}-OH



QBD10907

Amino-dPEG^{®36}-acid



QBD10249

Amino-dPEG^{®4}-OH



QBD10067

Amino-dPEG^{®6}-acid



QBD10277

Amino-dPEG^{®8}-acid



QBD10240

Amino-dPEG^{®8}-OH



764248

Amino-PEG4-alkyne



902535

Amino-PEG4-t-butyl ester



902659

Amino-PEG6-t-butyl ester



QBD10492

Aminoxy-dPEG^{®12}-amido-dPEG^{®12}-(m-dPEG^{®11})₃



806595

APN-Azide

95%



807745

APN-COCI



QBD10524

Azido-dPEG[®]₁₁-amine



QBD10513

Azido-dPEG[®]₁₂-acid

QBD10505

Azido-dPEG[®]₁₂-NHS ester



QBD10569

Azido-dPEG[®]₁₂-TFP ester
>90%



QBD10525

Azido-dPEG[®]₂₃-amine



QBD10514

Azido-dPEG[®]₂₄-acid



QBD10571

Azido-dPEG[®]₂₄-TFP ester



QBD10526

Azido-dPEG[®]₃₅-amine
>90%



QBD10573

Azido-dPEG[®]₃₆-TFP ester



QBD10502

Azido-dPEG[®]₄-acid



QBD10501

Azido-dPEG[®]₄-NHS ester



QBD10567

Azido-dPEG[®]₄-TFP ester



QBD10523

Azido-dPEG[®]₇-amine



QBD10512

Azido-dPEG[®]₈-acid



QBD10503

Azido-dPEG[®]₈-NHS ester



478709

Benzyl N-(3-hydroxypropyl)carbamate

97%



793329

Biotin-benzyl-tetrazine

95%



QBD10784

Biotin-dPEG[®]₁₁-azide



QBD10822

Biotin-dPEG[®]₁₁-Lipoamide



QBD10195

Biotin-dPEG[®]₁₁-MAL



QBD10196

Biotin-dPEG[®]₁₁-NH₂



QBD11102

Biotin-dPEG[®]₁₁-oxyamine HCl

QBD11811

Biotin-dPEG[®]₁₂-DBCO



QBD10008

Biotin-dPEG[®]₁₂-TFP ester



QBD10787

Biotin-dPEG[®]₂₃-azide



QBD10785

Biotin-dPEG[®]₂₃-MAL



QBD10786

Biotin-dPEG[®]₂₃-NH₂



QBD10007

Biotin-dPEG[®]₂₄-TFP ester



QBD10201

Biotin-dPEG[®]₃-MAL



QBD11100

Biotin-dPEG[®]₃-oxyamine HCl



QBD11386

Biotin-dPEG[®]₄ amido-dPEG[®]₂₄-amido-dPEG[®]₂₄-DSPE



QBD10219

Biotin-dPEG[®]₄-hydrazide



QBD10009

Biotin-dPEG[®]₄-TFP ester



QBD10825

Biotin-dPEG[®]₇-azide



QBD10826

Biotin-dPEG[®]₇-NH₂



QBD11338

Bis-Bromoacetamido-dPEG[®]₁₁



QBD11372

Bis-dPEG[®]₁₁-DBCO



QBD10954

Bis-dPEG[®]₁₃-NHS ester



QBD10984

Bis-dPEG[®]₁₃-PFP ester



QBD10015

Bis-dPEG[®]₅-PFP ester



QBD10983

Bis-dPEG[®]₉-PPF ester



QBD10397

Bis-MAL-dPEG[®]₁₁

QBD10215

Bis-MAL-dPEG[®]₃



QBD10631

Bis-MAL-Lysine-dPEG[®]₄-TFP ester



803537

Bis(NHS)PEG5



902551

BocNH-PEG4-acid



902683

BocNH-PEG5-acid



QBD11204

Bromoacetamido-dPEG[®]₁₁-azide



QBD11223

Bromoacetamido-dPEG[®]₁₂-amido-DBCO



QBD11202

Bromoacetamido-dPEG[®]₁₂-TFP ester



QBD11205

Bromoacetamido-dPEG[®]₂₃-azide



QBD11224

Bromoacetamido-dPEG[®]₂₄-amido-DBCO



QBD11203

Bromoacetamido-dPEG[®]₂₄-TFP ester



QBD11217

Bromoacetamido-dPEG[®]₃-azide



QBD11221

Bromoacetamido-dPEG[®]₄-amido-DBCO



QBD11200

Bromoacetamido-dPEG[®]₄-TFP ester



B8271

Bromoacetic acid N-hydroxysuccinimide ester

≥95%, powder



803464

BS(PEG)[®]9 (PEGylated bis(sulfosuccinimidyl)suberate)



QBD11385

Carboxyfluorescein-dPEG[®]₂₄-amido-dPEG[®]₂₄-DSPE



807664

CBTF



QBD11812

DBCO-dPEG[®]₁₂-carboxyfluorescein



QBD10593

DBCO-dPEG[®]₁₂-MAL

QBD11366

DBCO-dPEG[®]₁₂-TFP ester



QBD11383

DBCO-dPEG[®]₂₄-amido-dPEG[®]₂₄-DSPE



QBD10594

DBCO-dPEG[®]₂₄-MAL



QBD11370

DBCO-dPEG[®]₂₄-TFP ester



QBD11362

DBCO-dPEG[®]₄-TFP ester



QBD11815

DBCO-TFP ester



17353

di-Boc-cystamine

≥98.0% (TLC)



QBD10361

Diamido-dPEG[®]₁₁-diamine



760668

Dibenzocyclooctyne-maleimide

for Copper-free Click Chemistry



761524

Dibenzocyclooctyne-N-hydroxysuccinimidyl ester

for Copper-free Click Chemistry



760676

Dibenzocyclooctyne-PEG4-maleimide

for Copper-free Click Chemistry



D2388

Dimethyl 3,3'-dithiopropionimidate dihydrochloride

powder



QBD11170

DOTA tris(TBE)-amido-dPEG[®]₂₃-Maleimide



QBD11152

DOTA-tris(acid)-amido-dPEG[®]₁₁-bromoacetamide



QBD11167

DOTA-tris(acid)-amido-dPEG[®]₁₁-Maleimide



QBD11162

DOTA-tris(acid)-amido-dPEG[®]₁₂-TFP ester



QBD11171

DOTA-tris(acid)-amido-dPEG[®]₂₃-Maleimide

- QBD11384
DOTA-tris(acid)-amido-dPEG[®]₂₄-amido-dPEG[®]₂₄-DSPE

- QBD11163
DOTA-tris(acid)-amido-dPEG[®]₂₄-TFP ester

- QBD11150
DOTA-tris(acid)-amido-dPEG[®]₃-bromoacetamide

- QBD11160
DOTA-tris(acid)-amido-dPEG[®]₄-TFP ester

- QBD11166
DOTA-tris(TBE)-amido dPEG[®]₁₁-Maleimide

- QBD11157
DOTA-tris(TBE)-amido-dPEG[®]₁₂-TFP ester

- QBD11158
DOTA-tris(TBE)-amido-dPEG[®]₂₄-TFP ester

- QBD11155
DOTA-tris(TBE)-amido-dPEG[®]₄-TFP ester

- QBD10852
dPEG[®]₁₂-SATA (S-acetyl-dPEG[®]₁₂-NHS ester)

- QBD10181
dPEG[®]₄-SATA (S-acetyl-dPEG[®]₄-NHS ester)

- QBD10184
dPEG[®]₈-SATA (S-acetyl-dPEG[®]₈-NHS ester)

- 803200
DTSSP (3,3'-dithiobis(sulfosuccinimidyl propionate))

- 803677
EMCH (N-(ε-maleimidocaproic acid) hydrazide, trifluoroacetic acid salt)

- QBD10996

Fmoc-N-amido-dPEG[®]₁₂-NHS ester



QBD11006

Fmoc-N-amido-dPEG[®]₁₂-TFP ester



QBD10313

Fmoc-N-amido-dPEG[®]₂₄-acid



QBD11007

Fmoc-N-amido-dPEG[®]₂₄-TFP ester



QBD11008

Fmoc-N-amido-dPEG[®]₃₆-TFP ester



QBD10994

Fmoc-N-amido-dPEG[®]₄-NHS ester



QBD11000

Fmoc-N-amido-dPEG[®]₄-TFP ester



QBD10995

Fmoc-N-amido-dPEG[®]₈-NHS ester



QBD11005

Fmoc-N-amido-dPEG[®]₈-TFP ester



QBD11345

Hydroxy-dPEG[®]₁₂-TFP ester

QBD11349

Hydroxy-dPEG[®]₂₄-TFP ester



QBD11341

Hydroxy-dPEG[®]₄-TFP ester



902586

Hydroxy-PEG4-t-butyl ester



902578

Hydroxy-PEG6-t-butyl ester

≥95%



19760

Iodoacetic acid N-hydroxysuccinimide ester

powder



803421

LC-SDA (NHS-LC-Diazirine) (succinimidyl 6-(4,4'-azipentanamido)hexanoate)



803383

LC-SMCC (succinimidyl-4-(N-maleimidomethyl)cyclohexane-1-carboxy-(6-amidocaproate))



803642

LC-SPDP (succinimidyl 6-[3(2-pyridyldithio)propionamido]hexanoate)



QBD10808

Lipoamido-dPEG[®]₁₂-acid



QBD10814

Lipoamido-dPEG[®]₁₂-TFP ester



QBD10807

Lipoamido-dPEG[®]₈-acid



QBD10642

Lipoamido-dPEG[®]₈-TFP ester



QBD10288

m-dPEG[®]₁₂-amine



QBD10596

m-dPEG[®]₁₂-DBCO



QBD10801

m-dPEG[®]₁₂-Lipoamide



QBD10289

m-dPEG[®]₁₂-MAL



QBD10262

m-dPEG[®]₁₂-NHS ester



QBD10306

m-dPEG[®]₁₂-TFP ester



QBD11086

m-dPEG[®]₁₃-NHS ester



QBD11087

m-dPEG[®]₁₃-TFP ester

QBD10318

m-dPEG[®]₂₄-amine



QBD10540

m-dPEG[®]₂₄-Azide (Azido-m-dPEG[®]₂₄)



QBD10804

m-dPEG[®]₂₄-Lipoamide



QBD10319

m-dPEG[®]₂₄-MAL



QBD10304

m-dPEG[®]₂₄-NHS ester



QBD10303

m-dPEG[®]₂₄-TFP ester



QBD11095

m-dPEG[®]₂₅-amido-dPEG[®]₂₄-DSPE



QBD10175

m-dPEG[®]₄-amine



QBD10745

m-dPEG[®]₄-MAL



QBD10211

m-dPEG[®]₄-NHS ester



QBD10278

m-dPEG[®]₈-amine



QBD10800
m-dPEG[®]₈-Lipoamide



QBD10746
m-dPEG[®]₈-MAL



QBD10260
m-dPEG[®]₈-NHS ester



QBD10819
MAL-dPEG[®]₁₁-Lipoamide



QBD11028
MAL-dPEG[®]₁₂-DSPE



QBD10553
MAL-dPEG[®]₁₂-TFP ester



QBD11388
Mal-dPEG[®]₂₄-amido-dPEG[®]₂₄-amido-dPEG[®]₂₄-DSPE



QBD11093
MAL-dPEG[®]₂₄-amido-dPEG[®]₂₄-DSPE



QBD11303
MAL-dPEG[®]₂₄-amido-dPEG[®]₂₄-TFP ester

QBD10314
MAL-dPEG[®]₂₄-NHS ester



QBD10554
MAL-dPEG[®]₂₄-TFP ester



QBD10555
MAL-dPEG[®]₃₆-TFP ester



QBD10406
MAL-dPEG[®]₄-(m-dPEG[®]₁₂)₃



QBD10551
MAL-dPEG[®]₄-TFP ester



QBD10552

MAL-dPEG[®]₈-TFP ester



746215

Maleimide-PEG₁₂-succinimidyl ester



746223

Maleimide-PEG₂-succinimidyl ester

≥95%



746193

Maleimide-PEG₆-succinimidyl ester



746207

Maleimide-PEG₈-succinimidyl ester



QBD11373

Methoxy-dPEG[®]₂₅-DSPE



900914

Methyltetrazine-NHS ester

≥95%



56951

N-(2-Aminoethyl)maleimide trifluoroacetate salt

≥95% (HPLC), ≥98% (T)



B66302

N-(2-Bromoethyl)phthalimide

95%



773263

N-(2-Hydroxyethyl)maleimide

97%



440507

N-(2-Hydroxyethyl)trifluoroacetamide

97%



B80003

N-(3-Bromopropyl)phthalimide

98%



100919

N-(4-Bromobutyl)phthalimide

98%



89761

N-Boc- 2,2'-(ethylenedioxy)diethylamine

≥95.0% (NT)



15408

N-Boc-1,3-propanediamine

≥97.0% (GC/NT)

15404

N-Boc-1,4-butanediamine

≥97.0% (GC/NT)



79229

N-Boc-1,6-hexanediamine

≥98.0% (NT)



437018

N-Boc-1,6-hexanediamine hydrochloride

97%



93113

N-Boc-4,7,10-trioxa-1,13-tridecanediamine

≥95.0% (NT)



15406

N-Boc-cadaverine

≥97.0% (NT)



382027

N-Boc-ethanolamine

98%



15369

N-Boc-ethylenediamine

≥98.0% (NT)



53175

N-Boc-m-phenylenediamine

≥98.0% (HPLC)



671401

N-Boc-N'-succinyl-4,7,10-trioxa-1,13-tridecanediamine

95% (HPLC)



15485

N-Boc-p-phenylenediamine

≥97.0% (NT)



47543

N-Fmoc-1,6-hexanediamine hydrobromide

≥98.0% (AT)



47542

N-Fmoc-ethylenediamine hydrobromide

≥98.0% (AT)



726303

N¹,N⁴-Bis-Boc-spermidine

≥95.0% (TLC)



QBD10198

NHS-dPEG[®]₁₂-biotin



QBD10774

NHS-dPEG[®]₂₄-biotin



QBD10401

NHS-dPEG[®]₄-(m-dPEG[®]₁₂)₃-ester



QBD10200

NHS-dPEG[®]₄-biotin



QBD10194

NHS-S-S-dPEG[®]₄-biotin (cleavable)



689998

O-[2-(Biotinylamino)ethyl]-O'-(2-carboxyethyl)undecaethylene glycol

≥95% (oligomer purity)



689777

O-[N-(3-Maleimidopropionyl)aminoethyl]-O'-[3-(N-succinimidylxy)-3-oxopropyl]heptacosaeethylene glycol

≥90% (oligomer purity)

712582

O-[N-(3-Maleimidopropionyl)aminoethyl]-O'-[3-(N-succinimidylxy)-3-oxopropyl]triethylene glycol

≥90% (NMR)



689882

O-(2-Aminoethyl)-O'-[2-(biotinylamino)ethyl]octaethylene glycol

≥95% (oligomer uniformity)



77090

O-(2-Aminoethyl)-O'-[2-(Boc-amino)ethyl]decaethylene glycol

≥90% (oligomer purity)



70023

O-(2-Aminoethyl)-O'-[2-(Boc-amino)ethyl]hexaethylene glycol

≥90% (oligomer purity)



79141

O-(2-Aminoethyl)-O'-[2-(Boc-amino)ethyl]octaethylene glycol

≥90% (oligomer purity)



76318

O-(2-Aminoethyl)-O'-(2-azidoethyl)heptaethylene glycol

≥90% (oligomer purity)



77787

O-(2-Aminoethyl)-O'-(2-azidoethyl)nonaethylene glycol

≥90% (oligomer purity)



76172

O-(2-Aminoethyl)-O'-(2-azidoethyl)pentaethylene glycol

≥90% (oligomer purity)



671592

O-(2-Aminoethyl)-O'-(2-carboxyethyl)polyethylene glycol 5,000 hydrochloride

M_p 5,000



671487

O-(2-Aminoethyl)-O'-(2-carboxyethyl)polyethylene glycol hydrochloride

M_p 3,000



07969

O-(2-Aminoethyl)polyethylene glycol 3,000

M_p 3,000



71613

O-(2-Azidoethyl)-O-[2-(diglycolyl-amino)ethyl]heptaethylene glycol

≥90% (oligomer purity)



689440

O-(2-Azidoethyl)heptaethylene glycol

≥95% (oligomer purity)



672688

O-(2-Carboxyethyl)-O'-(2-mercaptoethyl)heptaethylene glycol

≥95% (oligomer purity)



712523

O-(3-Carboxypropyl)-O'-[2-(3-mercaptopropionylamino)ethyl]-polyethylene glycol

M_w 5000



712515

O-(3-Carboxypropyl)-O'-[2-(3-mercaptopropionylamino)ethyl]-polyethylene glycol

M_w 3000



713791

O,O'-Bis[2-(N-Succinimidyl-succinylamino)ethyl]polyethylene glycol

10,000



713783

O,O'-Bis[2-(N-Succinimidyl-succinylamino)ethyl]polyethylene glycol

2,000



258555

p-Phenylene diisothiocyanate

98%



901767

PC biotin-PEG3-NHS ester

803480

PDPH (3-(2-pyridyldithio)propionyl hydrazide)



803499

PEG4-SPDP (PEGylated, long-chain SPDP crosslinker)



QBD11135

Phthalimidooxy-dPEG[®]₁₂-NHS ester



QBD10011

Phthalimidooxy-dPEG[®]₄-NHS ester



764221

Propargyl-N-hydroxysuccinimidyl ester



902667

Propargyl-PEG6-acid



ALD00344
PTAD-Azide
95%



803650
SBAP (succinimidyl 3-(bromoacetamido)propionate)



803413
SDA (NHS-Diazirine) (succinimidyl 4,4'-azipentanoate)



803391
SM(PEG)24 (PEGylated, long-chain SMCC crosslinker)



803626
SMPH (succinimidyl-6-((b-maleimidopropionamido)hexanoate)



803472
SMPT (4-succinimidyl-oxycarbonyl-alpha-methyl-alpha(2-pyridyldithio)toluene)



QBD10378
SPDP-dPEG₁₂-NHS ester



QBD10379
SPDP-dPEG₂₄-NHS ester



QBD10374
SPDP-dPEG₄-NHS ester



QBD10376
SPDP-dPEG₈-NHS ester



S5799
Suberic acid bis(3-sulfo-N-hydroxysuccinimide ester) sodium salt
≥95% (H-NMR), powder



S1885
Suberic acid bis(N-hydroxysuccinimide ester)
≥95%, powder



760706
Sulfo-dibenzocyclooctyne-biotin conjugate
for Copper-free Click Chemistry



803219
Sulfo-EGS (ethylene glycol bis(sulfosuccinimidyl succinate))

803359
Sulfo-LC-SDA (Sulfo-NHS-LC-Diazirine) (sulfosuccinimidyl 6-(4,4'-azipentanamido)hexanoate)



803316
Sulfo-LC-SPDP (sulfosuccinimidyl 6-[3'-(2-pyridyldithio)propionamido]hexanoate)



803332
Sulfo-SANPAH (sulfosuccinimidyl 6-(4'-azido-2'-nitrophenylamino)hexanoate)



803340
Sulfo-SDA (Sulfo-NHS-Diazirine) (sulfosuccinimidyl 4,4'-azipentanoate)



803243
Sulfo-SMPB (sulfosuccinimidyl 4-(N-maleimidophenyl)butyrate)



900927
TCO-PNB ester
≥95%



83060
tert-Butyl 12-amino-4,7,10-trioxadodecanoate
technical, ≥80% (T)



QBD11435
Tetra(-amido-dPEG[®]₁₁-MAL)pentaerythritol



QBD11414
Tetra(-amido-dPEG[®]₂₃-MAL)pentaerythritol



QBD11371
Tetra(-dPEG[®]₁₁-DBCO)PE



QBD10204
TFP-dPEG[®]₁₂-biotinidase resistant biotin



QBD10203
TFP-dPEG[®]₄-biotinidase resistant biotin



CF0041
Urea crosslinker – C₄-arm, NHS ester (DSBU, BuUrBU)

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