

Product Information

DBCO/Maleimide PEG reagent, Sulfo DBCO-PEG4-Maleimide, Purity 90%

Cat. No.: X24-03-YW0423

Size: 10 mg; 25 mg; 100 mg; 500 mg

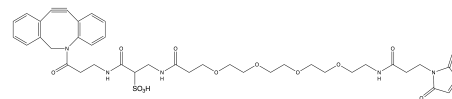
CAS Number: 2055198-07-5

PubChem CID: 123132094

Synonym: 2055198-07-5; Sulfo DBCO-PEG4-Maleimide; DBCO-Sulfo-

PEG4-Maleimide; AKOS040742660; BP-23318

This product is for research use only and is not intended for diagnostic use.



Product Information

Description	Sulfo DBCO-PEG4-Maleimide is a water-soluble click chemistry reagent containing a maleimide group and a DBCO moiety. The hydrophilic PEG spacer arm improves solubility in aqueous buffers.
Molecular Weight	825.9
Molecular Formula	C ₃₉ H ₄₇ N ₅ O ₁₃ S
Functional Group 1	DBCO
Functional Group 2	Maleimide
Functional Group 3	None
Reactive Group 1	Azide
Reactive Group 2	Thiol
IUPAC Name	1-[[[3-(2-Azatricyclo[10.4.0.0 ^{4,9}]hexadeca-1(16),4,6,8,12,14-hexaen-10-yn-2-yl)-3-oxopropyl]amino]-3-[3-[2-[2-[2-[2-[3-(2,5-dioxopyrrol-1-yl)propanoylamino]ethoxy]ethoxy]ethoxy]ethoxy]propanoylamino]-1-oxopropane-2-sulfonic acid
InChI	InChI=1S/C39H47N5O13S/c45-34(14-18-43-36(47)11-12-37(43)48)40-17-20-55-22-24-57-26-25-56-23-21-54-19-15-35(46)42-27-33(58(51,52)53)39(50)41-16-13-38(49)44-28-31-7-2-1-5-29(31)9-10-30-6-3-4-8-32(30)44/h1-8,11-12,33H,13-28H2,(H,40,45)(H,41,50)(H,42,46)(H,51,52,53)
InChI Key	QXLOITKOSRDQIZ-UHFFFAOYSA-N
Canonical SMILES	C1C2=CC=CC=C2C#CC3=CC=CC=C3N1C(=O)CCNC(=O)C(CNC(=O)CCOCCOCCOCCOCCNC(=O)CCN4C(=O)C=CC4=O)S(=O)(=O)O
Form	Liquid
Purity	90%
Identity	Confirmed by NMR.

Applications	Sulfo DBCO-PEG4-Maleimide is used in bioconjugation and molecular biology research, enabling efficient copper-free Click Chemistry reactions. Its maleimide group reacts specifically and efficiently with thiols to form stable thioether bonds, making it ideal for modifying cysteine-containing peptides.
Storage	Store at -20°C.