SUITE 201, 17 Ramsey Road, Shirley, NY 11967, USA
Tel: 1-631-637-6119 | Email: info@bioglyco.com

Product Information

DBCO/Maleimide PEG reagent, DBCO-PEG8-Maleimide, Purity 95%

Cat. No.: X24-03-YW0383

Size: 25 mg; 50 mg; 100 mg; 250 mg

PubChem CID: 156598869

Synonym: DBCO-PEG8-Maleimide; BP-25729

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

Product Information

Description	DBCO-PEG8-Maleimide is a reagent grade PEG linker containing a DBCO moiety and a terminal primary maleimide group, designed for copper-free Click Chemistry reactions. The maleimide group reacts with thiol groups to form covalent bonds.
Molecular Weight	851.0
Molecular Formula	$C_{44}H_{58}N_4O_{13}$
Functional Group 1	DBCO
Functional Group 2	Maleimide
Functional Group 3	None
Reactive Group 1	Azide
Reactive Group 2	Thiol
IUPAC Name	*N* -[2-[2-[2-[2-[2-[2-[2-[2-[3-[[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-oxopropoxy]ethoxy]ethoxy]ethoxy]ethoxy]ethoxy]ethoxy]ethoxy]ethyl]-3-(2,5-dioxopyrrol-1-yl)propanamide
InChI	InChI=1S/C44H58N4O13/c49-40(14-18-47-42(51)11-12-43(47)52)46-17-20-55-22-24-57-26-28-59-30-32-61-34-33-60-31-29-58-27-25-56-23-21-54-19-15-41(50)45-16-13-44(53)48-35-38-7-2-1-5-36(38)9-10-37-6-3-4-8-39(37)48/h1-8,11-12H,13-35H2,(H,45,50)(H,46,49)
InChI Key	DYIXRUWSTLEADN-UHFFFAOYSA-N
Canonical SMILES	C1C2=CC=CC=C2C#CC3=CC=CC=C3N1C(=O)CCNC(=O)CCOCCOCCOCCOCCOCCOCCOCCOCCNC(=O)CCN4C(=O)C=CC4=O
Form	Oil
Purity	95%
Solubility	DMSO, DCM, DMF
Identity	Confirmed by NMR.

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Applications	DBCO-PEG8-Maleimide is used in bioconjugation and molecular biology research, enabling efficient copper-free Click Chemistry reactions. Its maleimide group facilitates the connection of biomolecules with thiol groups, making it ideal for studying protein interactions and developing targeted drug delivery systems.
Storage	Store at -20°C.

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