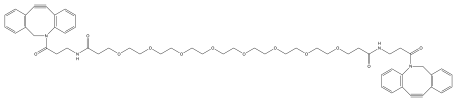
SUITE 201, 17 Ramsey Road, Shirley, NY 11967, USA
Tel: 1-631-637-6119 | Email: info@bioglyco.com

Product Information

DBCO PEG reagent, DBCO-PEG8-DBCO, Purity 98%



Cat. No.: X24-03-YW0379

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

PubChem CID: 156598864

Synonym: DBCO-PEG8-DBCO; BP-25736

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

Product Information

Description	DBCO-PEG8-DBCO is a reagent grade monodisperse click chemistry linker containing two terminal DBCO groups and a hydrophilic PEG spacer arm, designed for copper-free Click Chemistry reactions.
Molecular Weight	987.2
Molecular Formula	$C_{56}H_{66}N_4O_{12}$
Functional Group 1	DBCO
Functional Group 2	None
Functional Group 3	None
Reactive Group 1	Azide
IUPAC Name	*N*-[3-(2-Azatricyclo[10.4.0.0^{4,9}]hexadeca-1(16),4,6,8,12,14-hexaen-10-yn-2-yl)-3-oxopropyl]-3-[2-[2-[2-[2-[2-[2-[2-[3-[[3-(2-azatricyclo[10.4.0.04,9]hexadeca-1(16),4,6,8,12,14-hexaen-10-yn-2-yl)-3-oxopropyl]amino]-3-oxopropoxy]ethoxy]ethoxy]ethoxy]ethoxy]ethoxy]ethoxy]propanamide
InChI	InChI=1S/C56H66N4O12/c61-53(57-25-21-55(63)59-43-49-13-3-1-9-45(49)17-19-47-11-5-7-15-51(47)59)23-27-65-29-31-67-33-35-69-37-39-71-41-42-72-40-38-70-36-34-68-32-30-66-28-24-54(62)58-26-22-56(64)60-44-50-14-4-2-10-46(50)18-20-48-12-6-8-16-52(48)60/h1-16H,21-44H2,(H,57,61)(H,58,62)
InChI Key	WORGGWSVRRPHFH-UHFFFAOYSA-N
Canonical SMILES	C1C2=CC=CC=C2C#CC3=CC=CC=C3N1C(=O)CCNC(=O)CCOCCOCCOCCOCCOCCOCCOCCOCCC(=O)NCCC(=O)N4CC5=CC=CC=C5C#CC6=CC=CC=C64
Form	Solid/liquid
Purity	98%
Solubility	DMSO, DCM, DMF
Identity	Confirmed by NMR.

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Applications	DBCO-PEG8-DBCO is used in bioconjugation and molecular biology research, facilitating the formation of stable triazole linkages with azide-bearing compounds or biomolecules. Its PEG spacer arm enhances water solubility and membrane permeability, making it ideal for studies on biomolecular interactions and drug delivery systems.
Storage	Store at -20°C.