

Product Information

DBCO/Oxhydryl PEG reagent, DBCO-PEG4-alcohol, Purity 95%

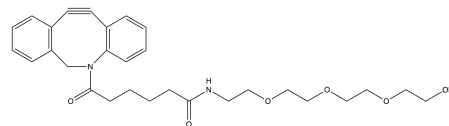
Cat. No.: X24-03-YW0363

Size: 25 mg; 100 mg; 500 mg

CAS Number: 1416711-60-8

PubChem CID: 97046974

Synonym: 1416711-60-8; DBCO-PEG4-Alcohol; Dibenzoazacyclooctyne-tetra(ethylene glycol)



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

Product Information

Description	DBCO-PEG4-alcohol is a reagent grade PEG linker featuring a DBCO moiety and a terminal primary hydroxyl group, designed to enhance solubility of labeled molecules through its hydrophilic PEG spacer arm.
Molecular Weight	508.6
Molecular Formula	C ₂₉ H ₃₆ N ₂ O ₆
Functional Group 1	DBCO
Functional Group 2	Oxhydryl
Functional Group 3	None
Reactive Group 1	Amine
IUPAC Name	6-(2-Azatricyclo[10.4.0.0 ^{4,9}]hexadeca-1(16),4,6,8,12,14-hexaen-10-yn-2-yl)-N-[2-[2-[2-(2-hydroxyethoxy)ethoxy]ethoxy]ethyl]-6-oxohexanamide
InChI	InChI=1S/C29H36N2O6/c32-16-18-36-20-22-37-21-19-35-17-15-30-28(33)11-5-6-12-29(34)31-23-26-9-2-1-7-24(26)13-14-25-8-3-4-10-27(25)31/h1-4,7-10,32H,5-6,11-12,15-23H2,(H,30,33)
InChI Key	ZZXWONCQAFVJHM-UHFFFAOYSA-N
Canonical SMILES	C1C2=CC=CC=C2C#CC3=CC=CC=C3N1C(=O)CCCCC(=O)NCCOCCOCCOCCO
Form	Sticky solid
Purity	95%
Identity	Confirmed by NMR.
Applications	DBCO-PEG4-alcohol is utilized in bioconjugation and molecular biology research, facilitating copper-free Click Chemistry reactions. Its terminal hydroxyl group reacts with various functional groups, making it ideal for modifying biomolecules and enhancing their solubility in aqueous media for

studies on protein interactions and drug delivery systems.

Storage

Store at -20°C.