

## Product Information

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

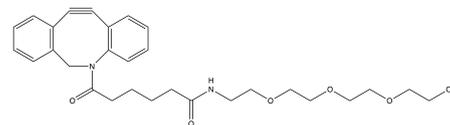
**Cat. No.:** X24-03-YW0363

**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

<b>Description</b>	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.
<b>Molecular Weight</b>	508.6
<b>Molecular Formula</b>	C <sub>29</sub> H <sub>36</sub> N <sub>2</sub> O <sub>6</sub>
<b>Functional Group 1</b>	DBCO
<b>Functional Group 2</b>	Oxhydryl
<b>Functional Group 3</b>	None
<b>Reactive Group 1</b>	Amine
<b>IUPAC Name</b>	6-(2-Azatricyclo[10.4.0.0 <sup>4,9</sup> ]hexadeca-1(16),4,6,8,12,14-hexaen-10-yn-2-yl)-N-[2-[2-[2-(2-hydroxyethoxy)ethoxy]ethoxy]ethyl]-6-oxohexanamide
<b>InChI</b>	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)
<b>InChI Key</b>	ZZXWONCQAFVJHM-UHFFFAOYSA-N
<b>Canonical SMILES</b>	C1C2=CC=CC=C2C#CC3=CC=CC=C3N1C(=O)CCCC(=O)NCCOCCOCCOCCO
<b>Form</b>	Sticky solid
<b>Purity</b>	95%
<b>Identity</b>	Confirmed by NMR.
<b>Applications</b>	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.

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**Storage**

Store at -20°C.

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