

Product Information

DBCO PEG reagent, DBCO-PEG4-DBCO, Purity 98%

Cat. No.: X24-03-YW0384

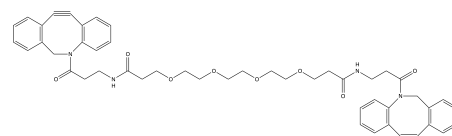
Size: 25 mg; 50 mg; 100 mg

CAS Number: 2182601-68-7

PubChem CID: 129627656

Synonym: 2182601-68-7; DBCO-PEG4-DBCO; AKOS040741606; BP-23772

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



Product Information

Description	DBCO-PEG4-DBCO is a reagent grade homobifunctional PEG linker containing two DBCO groups and a hydrophilic PEG spacer arm, designed for copper-free Click Chemistry reactions with azide-bearing compounds or biomolecules.
Molecular Weight	811.0
Molecular Formula	C ₄₈ H ₅₀ N ₄ O ₈
Functional Group 1	DBCO
Functional Group 2	None
Functional Group 3	None
Reactive Group 1	Azide
IUPAC Name	<i>N</i> -[3-(2-Azatricyclo[10.4.0.0 ^{4,9}]
	4,9
	]hexadeca-1(16),4,6,8,12,14-hexaen-10-yn-2-yl)-3-oxopropyl]amino]-3-oxopropoxy]ethoxy]ethoxy]ethoxy]propanamide
InChI	InChI=1S/C48H50N4O8/c53-45(49-25-21-47(55)51-35-41-13-3-1-9-37(41)17-19-39-11-5-7-15-43(39)51)23-27-57-29-31-59-33-34-60-32-30-58-28-24-46(54)50-26-22-48(56)52-36-42-14-4-2-10-38(42)18-20-40-12-6-8-16-44(40)52/h1-16H,21-36H2,(H,49,53)(H,50,54)
InChI Key	YCDMQCKYINAWGI-UHFFFAOYSA-N
Canonical SMILES	C1C2=CC=CC=C2C#CC3=CC=CC=C3N1C(=O)CCNC(=O)CCOCCOCCOCCOCC(=O)NCCC(=O)N4CC5=CC=CC=C5C#CC6=CC=CC=C64
Form	Solid
Purity	98%

Identity	Confirmed by NMR.
Applications	DBCO-PEG4-DBCO is used in bioconjugation and molecular biology research, facilitating the formation of stable triazole linkages. Its hydrophilic PEG spacer arm enhances water solubility and membrane permeability, making it ideal for studying biomolecular interactions and developing drug delivery systems.
Storage	Store at -20°C.