

Product Information

Boc-protected Amine/DBCO PEG reagent, DBCO-PEG4-NH-Boc, Purity 98%

Cat. No.: X24-03-YW0380

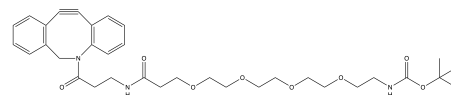
Size: 50 mg; 100 mg; 250 mg

CAS Number: 2353410-17-8

PubChem CID: 134811404

Synonym: 2353410-17-8; AKOS040743204; BP-24105; HY-140291

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



Product Information

Description	DBCO-PEG4-NH-Boc is a reagent grade PEG linker featuring a DBCO group and a Boc-protected amine, designed for copper-free Click Chemistry reactions with azides. The hydrophilic PEG linker enhances water solubility.
Molecular Weight	623.8
Molecular Formula	C ₃₄ H ₄₅ N ₃ O ₈
Functional Group 1	Boc-protected Amine
Functional Group 2	DBCO
Functional Group 3	None
Reactive Group 1	Azide
IUPAC Name	<i>Tert</i> -butyl <i>N</i> -[2-[2-[2-[2-[4-(2-azatricyclo[10.4.0.0 ^{4,9}]hexadeca-1(16),4,6,8,12,14-hexaen-10-yn-2-yl)-4-oxobutanoyl]amino]ethoxy]ethoxy]ethoxy]ethoxy]ethyl]carbamate
InChI	InChI=1S/C34H45N3O8/c1-34(2,3)45-33(40)36-17-19-42-21-23-44-25-24-43-22-20-41-18-16-35-31(38)14-15-32(39)37-26-29-10-5-4-8-27(29)12-13-28-9-6-7-11-30(28)37/h4-11H,14-26H2,1-3H3,(H,35,38)(H,36,40)
InChI Key	IYUOKJUXPPDW CZ-UHFFFAOYSA-N
Canonical SMILES	CC(C)(C)OC(=O)NCCOCCOCCOCCOCCNC(=O)CCC(=O)N1CC2=CC=CC=C2C#CC3=CC=CC=C31
Form	Solid/liquid
Purity	98%
Solubility	DMSO, DCM, DMF
Identity	Confirmed by NMR.

Applications	DBCO-PEG4-NH-Boc is used in bioconjugation and molecular biology research, enabling efficient copper-free Click Chemistry reactions. Its Boc-protected amine can be deprotected under acidic conditions for further functionalization, making it ideal for modifying biomolecules and studying protein interactions.
Storage	Store at -20°C.