

Product Information

BCN PEG reagent, Bis-PEG4-endo-BCN, Purity 95%

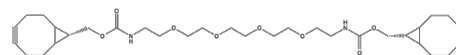
Cat. No.: X24-03-YW0042

Size: 100 mg; 250 mg; 500 mg

PubChem CID: 155569760

Synonym: BP-23702

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



Product Information

Description	Bis-PEG4-endo-BCN is a homobifunctional click chemistry linker composed of a PEG spacer for enhanced aqueous solubility and BCN groups for copper-free click chemistry.
Molecular Weight	588.7
Molecular Formula	C ₃₂ H ₄₈ N ₂ O ₈
Functional Group 1	BCN
Functional Group 2	None
Functional Group 3	None
Reactive Group 1	Azide
IUPAC Name	[(1R,8S)-9-bicyclo[6.1.0]non-4-ynyl]methyl N-[2-[2-[2-[2-[2-[(1R,8S)-9-bicyclo[6.1.0]non-4-ynyl]methoxycarbonylamino]ethoxy]ethoxy]ethoxy]ethoxy]ethyl]carbamate
InChI	InChI=1S/C32H48N2O8/c35-31(41-23-29-25-9-5-1-2-6-10-26(25)29)33-13-15-37-17-19-39-21-22-40-20-18-38-16-14-34-32(36)42-24-30-27-11-7-3-4-8-12-28(27)30/h25-30H,5-24H2,(H,33,35)(H,34,36)/t25-,26+,27-,28+,29?,30?
InChI Key	LPGIRCUGQRDRKM-QHNOGPKKSA-N
Canonical SMILES	C1CC2C(C2COC(=O)NCCOCCOCCOCCOCCNC(=O)OCC3C4C3CCC#CCC4)CCC#C1
Isomeric SMILES	C1C[C@@H]2[C@@H](C2COC(=O)NCCOCCOCCOCCOCCNC(=O)OCC3[C@H]4[C@@H]3CCC#CCC4)CCC#C1
Form	Oil
Purity	95%
Solubility	DMSO, DCM, DMF
Identity	Confirmed by NMR.
Applications	Bis-PEG4-Endo-BCN is indispensable in bioconjugation, facilitating specific coupling reactions with

azide-tagged molecules under copper-free conditions. Its homobifunctional nature allows for precise molecular crosslinking and modification, making it invaluable in various research applications such as drug delivery, diagnostics, and biomaterials development.

Storage	Store at -20°C
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