

Product Information

BCN/NHS PEG reagent, Endo-BCN-PEG4-NHS ester, Purity 95%

Cat. No.: X24-03-YW0044

Size: 50 mg; 100 mg; 250 mg; 500 mg

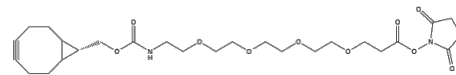
CAS Number: 2252422-32-3

PubChem CID: 102514852

Synonym: 2252422-32-3; Endo-BCN-PEG4-NHS ester; Endo BCN-PEG4-NHS ester;

(2,5-Dioxopyrrolidin-1-yl) 3-[2-[2-[2-(9-bicyclo[6.1.0]non-4-ynylmethoxycarbonylamino)ethoxy]ethoxy]ethoxy]propanoate

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



Product Information

Description	Endo-BCN-PEG4-NHS ester features a PEG linker, NHS ester group, and BCN moiety, essential for bioconjugation.
Molecular Weight	538.6
Molecular Formula	C ₂₆ H ₃₈ N ₂ O ₁₀
Functional Group 1	BCN
Functional Group 2	NHS
Functional Group 3	None
Reactive Group 1	Azide
IUPAC Name	(2,5-Dioxopyrrolidin-1-yl) 3-[2-[2-[2-(9-bicyclo[6.1.0]non-4-ynylmethoxycarbonylamino)ethoxy]ethoxy]ethoxy]propanoate
InChI	InChI=1S/C26H38N2O10/c29-23-7-8-24(30)28(23)38-25(31)9-11-33-13-15-35-17-18-36-16-14-34-12-10-27-26(32)37-19-22-20-5-3-1-2-4-6-21(20)22/h20-22H,3-19H2,(H,27,32)
InChI Key	MFQCOKMBYCIQEJ-UHFFFAOYSA-N
Canonical SMILES	C1CC2C(C2COC(=O)NCCOCCOCCOCCOCCOCC(=O)ON3C(=O)CCC3=O)CCC#C1
Form	Liquid
Purity	95%
Solubility	DMSO, DCM, DMF
Identity	Confirmed by NMR.
Applications	Endo-BCN-PEG4-NHS ester is pivotal in labeling primary amines (-NH ₂) of biomolecules. Its NHS ester group reacts specifically with primary amines, facilitating precise labeling of proteins,

oligonucleotides, and other amine-containing molecules. The BCN group enables copper-free click chemistry with azide-tagged biomolecules, while the amino group further expands its versatility by reacting with various functional groups, including carboxylic acids and carbonyls. This enables diverse applications in drug delivery, diagnostics, and biomaterials research.

Storage	Store at -20°C
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