

Product Information

BCN/Carboxyl PEG reagent, Endo-BCN-PEG4-*t*-butyl ester, Purity 95%

Cat. No.: X24-03-YW0023

Size: 50 mg; 100 mg; 250 mg

CAS Number: 1807501-83-2

PubChem CID: 91757930

Synonym: 1807501-83-2; Endo-BCN-PEG4-*t*-butyl ester; Endo-BCN-PEG4-Boc;

Tert-butyl

1-(bicyclo[6.1.0]non-4-yn-9-yl)-3-oxo

-2,7,10,13,16-pentaoxa-4-azanonadecan-19-oate; Endo-BCN-PEG4-CH₂CH₂COOtBu



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

Product Information

Description	Endo-BCN-PEG4- <i>t</i> -butyl ester is a click chemistry linker with a BCN group and a <i>t</i> -butyl protected carboxyl group. The BCN group reacts with azide-tagged molecules. The protected carboxyl group prevents self-coupling or polymerization under standard coupling conditions. The <i>t</i> -butyl ester can be converted to a free acid under acidic conditions.
Molecular Weight	497.6
Molecular Formula	C ₂₆ H ₄₃ NO ₈
Functional Group 1	BCN
Functional Group 2	Carboxyl
Functional Group 3	None
Reactive Group 1	Azide
IUPAC Name	<i>Tert</i> -butyl 3-[2-[2-[2-[2-(9-bicyclo[6.1.0]non-4-ynylmethoxycarbonylamino)ethoxy]ethoxy]ethoxy]ethoxy]propanoate
InChI	InChI=1S/C26H43NO8/c1-26(2,3)35-24(28)10-12-30-14-16-32-18-19-33-17-15-31-13-11-27-25(29)34-20-23-21-8-6-4-5-7-9-22(21)23/h21-23H,6-20H2,1-3H3,(H,27,29)
InChI Key	BSCLHAMNOSOPKH-UHFFFAOYSA-N
Canonical SMILES	CC(C)(C)OC(=O)CCOCCOCCOCCOCCN(C(=O)OCC1C2C1CCC#CCC2
Form	Oil
Purity	95%
Solubility	DMSO, DCM, DMF

Identity	Confirmed by NMR.
Applications	Endo-BCN-PEG4- <i>t</i> -butyl ester plays a critical role in bioconjugation chemistry, enabling specific coupling reactions with azide-tagged molecules. The protected carboxyl group ensures stability during conjugation, preventing unwanted side reactions. After deprotection, the free acid functionality enhances versatility, allowing for further conjugation or modification. It finds applications in protein labeling, drug delivery, and biomaterials development.
Storage	Store at -20°C