

Product Information

BCN PEG reagent, Endo-BCN-PEG2-NHS ester, Purity 97%

Cat. No.: X24-03-YW0017

Size: 50 mg; 100 mg; 250 mg

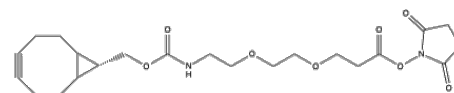
CAS Number: 2243565-12-8

PubChem CID: 134811418

Synonym: 2243565-12-8; Endo-BCN-PEG2-NHS ester; Endo-BCN-PEG2-C2-NHS

ester

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



Product Information

Description	Endo-BCN-PEG2-NHS ester is a click chemistry crosslinker featuring an NHS ester group. It labels primary amines (-NH ₂) of proteins, amine-modified oligonucleotides, and other amine-containing molecules. The BCN group reacts with azide-tagged biomolecules.
Molecular Weight	450.5
Molecular Formula	C ₂₂ H ₃₀ N ₂ O ₈
Functional Group 1	BCN
Functional Group 2	None
Functional Group 3	None
Reactive Group 1	Azide
IUPAC Name	(2,5-Dioxopyrrolidin-1-yl) 3-[2-[2-(9-bicyclo[6.1.0]non-4-ynylmethoxycarbonylamino)ethoxy]ethoxy]propanoate
InChI	InChI=1S/C22H30N2O8/c25-19-7-8-20(26)24(19)32-21(27)9-11-29-13-14-30-12-10-23-22(28)31-15-18-16-5-3-1-2-4-6-17(16)18/h16-18H,3-15H2,(H,23,28)
InChI Key	HVVMKCPRACMDSI-UHFFFAOYSA-N
Canonical SMILES	C1CC2C(C2COC(=O)NCCOCCOCCCC(=O)ON3C(=O)CCC3=O)CCC#C1
Form	Oil
Purity	97%
Solubility	DMSO, DCM, DMF
Identity	Confirmed by NMR.
Applications	Endo-BCN-PEG2-NHS ester is essential in bioconjugation, enabling specific labeling of primary amines in biomolecules. Its NHS ester functionality ensures efficient conjugation under mild

conditions. The BCN group broadens its utility, facilitating coupling reactions with azide-tagged biomolecules, making it valuable in protein labeling, drug delivery, and biomaterials development.

Storage	Store at -20°C
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