

Product Information

Amine/NHS PEG reagent, *t*-Boc-*N*-amido-PEG3-NHS ester, Purity 98%

Cat. No.: X24-09-YYX181

Size: 250 mg; 500 mg; 1 g

CAS Number: 2250216-93-2

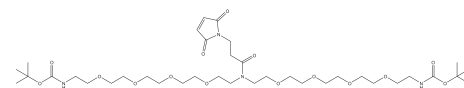
PubChem CID: 134827758

Synonym: 2250216-93-2; Boc-NH-PEG3-NHS ester; *t*-Boc-*N*-amido-PEG3-NHS

ester; BocNH-PEG3-CH₂COONHS; 2,5-Dioxopyrrolidin-1-yl

2,2-dimethyl-4-oxo-3,8,11,14-tetraoxa-5-azaheptadecan-17-oate

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



Product Information

Description	<i>t</i> -Boc- <i>N</i> -amido-PEG3-NHS ester is a PEG linker that features an NHS ester and a <i>t</i> -Boc protected amine group. The hydrophilic PEG spacer enhances the solubility of compounds in aqueous solutions. Under mild acidic conditions, the <i>t</i> -Boc group can be removed to yield free amines. This NHS ester is suitable for labeling primary amines <i>t</i> -found in proteins, amine-modified oligonucleotides, and other molecules containing amino groups.
Molecular Weight	418.4
Molecular Formula	C ₁₈ H ₃₀ N ₂ O ₉
Functional Group 1	Boc
Functional Group 2	Amine
Functional Group 3	NHS
Reactive Group 1	Acid
Reactive Group 2	Amine
IUPAC Name	(2,5-Dioxopyrrolidin-1-yl) 3-[2-[2-[2-[(2-methylpropan-2-yl)oxycarbonylamino]ethoxy]ethoxy]ethoxy]propanoate
InChI	InChI=1S/C18H30N2O9/c1-18(2,3)28-17(24)19-7-9-26-11-13-27-12-10-25-8-6-16(23)29-20-14(21)4-5-15(20)22/h4-13H2,1-3H3,(H,19,24)
InChI Key	DCSQNPDDWGCFIB-UHFFFAOYSA-N
Canonical SMILES	CC(C)(C)OC(=O)NCCOCCOCCOCCC(=O)ON1C(=O)CCC1=O
Form	Solid or viscous liquid
Purity	98%

Solubility	DMSO, DCM, DMF
Identity	Confirmed by NMR.
Applications	This compound is often used in peptide synthesis and as a linker for bioconjugation applications. Its NHS ester functionality allows for covalent attachment to amine-containing molecules, making it useful in drug delivery systems and the development of biopharmaceuticals.
Storage	Store at -20°C.