

Product Information

Amine/NHS PEG reagent, *t*-Boc-*N*-amido-PEG4-CH₂CO₂-NHS ester, Purity 95%

Cat. No.: X24-09-YYX153

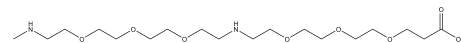
Size: 100 mg; 250 mg; 500 mg; 1 g

Synonym: 2553413-41-3; (2,5-dioxopyrrolidin-1-yl) 2-[2-[2-[2-[(2-methylpropan-2-yl

)oxycarbonylamino]ethoxy]ethoxy]ethoxy]ethoxy]acetate; 2,5-Dioxopyrrolidin-1-yl

2,2-dimethyl-4-oxo-3,8,11,14,17-pentaoxa-5-azanonadecan-19-oate

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



Product Information

Description	This compound combines a Boc-protected amino group, a PEG4 chain, a carboxylate group, and an NHS ester. It is often used in bioconjugation reactions and the modification of biomolecules. The PEG4 moiety enhances solubility and biocompatibility, while the NHS ester enables conjugation with amine-containing molecules.
Molecular Weight	448.5
Molecular Formula	C ₁₉ H ₃₂ N ₂ O ₁₀
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) 2-[2-[2-[2-[(2-methylpropan-2-yl)oxycarbonylamino]ethoxy]ethoxy]ethoxy]ethoxy]acetate
InChI	InChI=1S/C19H32N2O10/c1-19(2,3)30-18(25)20-6-7-26-8-9-27-10-11-28-12-13-29-14-17(24)31-21-15(22)4-5-16(21)23/h4-14H2,1-3H3,(H,20,25)
InChI Key	NJRBYZYPWGSMGI-UHFFFAOYSA-N
Isomeric SMILES	CC(C)(C)OC(=O)NCCOCCOCCOCCOCC(=O)ON1C(=O)CCC1=O
Form	Solid or viscous liquid
Purity	95%
Identity	Confirmed by NMR.
Applications	This compound can be used to link various bioactive molecules through an amido bond, providing targeted delivery or increased efficacy. The CH ₂ CO ₂ group can serve as a cleavable linker, making it useful in controlled release applications.

Storage

Store at -20°C.
