

## Product Information

### Amine PEG reagent, *t*-Boc-*N*-amido-PEG4-NHS ester, Purity 98%

**Cat. No.:** X24-09-YYX225

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

**CAS Number:** 859230-20-9

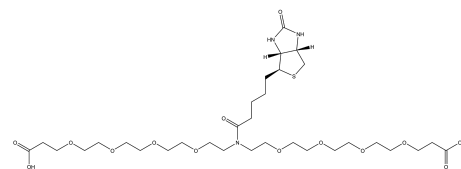
**PubChem CID:** 59711534

**Synonym:** 859230-20-9; *t*-Boc-*N*-amido-PEG4-NHS ester; Boc-NH-PEG4-NHS ester;

2,5-Dioxopyrrolidin-1-yl

2,2-dimethyl-4-oxo-3,8,11,14,17-pentaoxa-5-azaicosan-20-oate; Boc-NH-PEG4-SPA

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



#### Product Information

<b>Description</b>	<i>t</i> -Boc- <i>N</i> -amido-PEG4-NHS ester is a PEG linker that features both a Boc-protected amine group and an NHS ester. The hydrophilic PEG spacer enhances solubility in aqueous solutions. This NHS ester can be utilized for labeling primary amines <i>t</i> -found in proteins, amine-modified oligonucleotides, and other molecules containing amino groups. The protected amine can be released under acidic conditions.
<b>Molecular Weight</b>	462.5
<b>Molecular Formula</b>	C <sub>20</sub> H <sub>34</sub> N <sub>2</sub> O <sub>10</sub>
<b>Functional Group 1</b>	Boc
<b>Functional Group 2</b>	Amine
<b>Functional Group 3</b>	Ester
<b>Reactive Group 1</b>	Acid
<b>IUPAC Name</b>	(2,5-Dioxopyrrolidin-1-yl) 3-[2-[2-[2-[2-[(2-methylpropan-2-yl)oxycarbonylamino]ethoxy]ethoxy]ethoxy]ethoxy]propanoate
<b>InChI</b>	InChI=1S/C20H34N2O10/c1-20(2,3)31-19(26)21-7-9-28-11-13-30-15-14-29-12-10-27-8-6-18(25)32-22-16(23)4-5-17(22)24/h4-15H2,1-3H3,(H,21,26)
<b>InChI Key</b>	HHPGGUMKDXTEDQ-UHFFFAOYSA-N
<b>Canonical SMILES</b>	CC(C)(C)OC(=O)NCCOCCOCCOCCOCCOCC(=O)ON1C(=O)CCC1=O
<b>Form</b>	Solid or viscous liquid
<b>Purity</b>	98%
<b>Solubility</b>	DMSO, DCM, DMF

Identity	Confirmed by NMR.
Applications	It is often employed in the development of peptide-based therapeutics, where it helps improve the pharmacokinetic properties of the peptides, increasing their circulation time in the body and reducing immunogenicity.
Storage	Store at -20°C.