

Product Information

Amine/NHS PEG reagent, *t*-Boc-*N*-amido-PEG5-NHS ester, Purity 98%

Cat. No.: X24-09-YYX192

Size: 250 mg; 500 mg; 1 g

CAS Number: 2055040-78-1

PubChem CID: 119058276

Synonym: 2055040-78-1; *t*-Boc-*N*-amido-PEG5-NHS ester; Boc-*N*-PEG5-C₂-NHS

ester; *t*-BOC-*N*-amido-PEG5-NHSESTER; 2,5-dioxopyrrolidin-1-yl

2,2-dimethyl-4-oxo-3,8,11,14,17,20-hexaoxa-5-azatricosan-23-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-PEG5-NHS ester functions as a PEG linker featuring an NHS ester and a Boc-protected amino group. The hydrophilic nature of its PEG spacer enhances solubility in aqueous solutions. Under mild acidic conditions, the Boc group can be removed to yield free amines. This NHS ester is suitable for labeling primary amines <i>t</i> -present in proteins, amine-modified oligonucleotides, and other molecules containing amino groups.
Molecular Weight	506.6
Molecular Formula	C ₂₂ H ₃₈ N ₂ O ₁₁
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-[(2-methylpropan-2-yl)oxycarbonylamino]ethoxy]ethoxy]ethoxy]ethoxy]ethoxy]propanoate
InChI	InChI=1S/C22H38N2O11/c1-22(2,3)34-21(28)23-7-9-30-11-13-32-15-17-33-16-14-31-12-10-29-8-6-20(27)35-24-18(25)4-5-19(24)26/h4-17H2,1-3H3,(H,23,28)
InChI Key	FCVPAOUCTNORCY-UHFFFAOYSA-N
Canonical SMILES	CC(C)(C)OC(=O)NCCOCCOCCOCCOCCOCCOCC(=O)ON1C(=O)CCC1=O
Form	Solid or viscous liquid
Purity	98%

Identity	Confirmed by NMR.
Applications	<i>t</i> -Boc- <i>N</i> -amido-PEG5-NHS ester is commonly employed in the synthesis and modification of peptides and proteins to add PEG moieties for improved properties.
Storage	Store at -20°C.
