SUITE 201, 17 Ramsey Road, Shirley, NY 11967, USA
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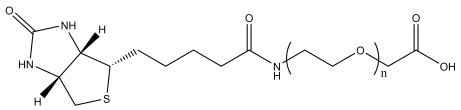
# Product Information

## Amine/NHS PEG reagent, *t*-Boc-*N*-amido-PEG2-NHS ester, Purity 98%



**Cat. No.:** X24-09-YYX183

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

**CAS Number:** 2183440-73-3

**PubChem CID:** 23591747

**Synonym:** 2183440-73-3; *t*-Boc-*N*-amido-PEG2-NHS ester; Boc-NH-PEG2-$C_2$-NHS ester; 2,5-dioxopyrrolidin-1-yl 2,2-dimethyl-4-*oxo*-3,8,11-trioxa-5-azatetradecan-14-oate; BocNH-PEG2-$CH_2CH_2$COONHS

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

### Product Information

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| **Description** | *t*-Boc-*N*-amido-PEG2-NHS ester functions as another PEG linker featuring both an NHS ester and a *t*-Boc protected amino group. Its hydrophilic PEG spacer increases solubility when dissolved in aqueous media, and like before, the *t*-Boc group can be removed under mild acidic conditions to generate free amines suitable for various applications involving primary amines *t*-from proteins or modified oligonucleotides. |
| **Molecular Weight** | 374.4 |
| **Molecular Formula** | $C_{16}H_{26}N_2O_8$ |
| **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-methylpropan-2-yl)oxycarbonylamino]ethoxy]ethoxy]propanoate |
| **InChI** | InChI=1S/C16H26N2O8/c1-16(2,3)25-15(22)17-7-9-24-11-10-23-8-6-14(21)26-18-12(19)4-5-13(18)20/h4-11H2,1-3H3,(H,17,22) |
| **InChI Key** | FNZXIPYAXFROBS-UHFFFAOYSA-N |
| **Canonical SMILES** | CC(C)(C)OC(=O)NCCOCCOCCC(=O)ON1C(=O)CCC1=O |
| **Form** | Solid or viscous liquid |
| **Purity** | 98% |

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|---|---|
| **Solubility** | DCM |
| **Identity** | Confirmed by NMR. |
| **Applications** | This compound serves similar functions in peptide synthesis and bioconjugation as the PEG3 variant but with an optimized spacer length that may influence the flexibility and solubility of the final conjugate, enhancing its pharmacokinetic properties. |
| **Storage** | Store at -20°C. |