

Product Information

NHS PEG reagent, *t*-Butoxycarbonyl-PEG2-NHS ester, Purity 95%

Cat. No.: X24-09-YYX222

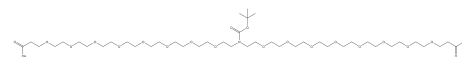
Size: 100 mg; 250 mg; 500 mg; 1 g

CAS Number: 2411681-93-9

Synonym: *tert*-butyl

3-[2-[3-(2,5-dioxopyrrolidin-1-yl)oxy-3-oxopropoxy]ethoxy]propanoate

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



Product Information

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|---------------------------|---|
| Description | <i>t</i> -Butoxycarbonyl-PEG2-NHS ester contains both a <i>t</i> -Boc protecting group and an NHS ester functionality. The <i>t</i> -butyl group can be deprotected under acidic conditions, allowing the NHS ester to react specifically and efficiently with primary amines such as those on lysine side chains or surfaces coated with aminosilane at neutral or slightly basic pH levels to form covalent bonds. Its hydrophilic PEG linker increases the compound's water solubility when placed into aqueous media. |
| Molecular Weight | 359.4 |
| Molecular Formula | C ₁₆ H ₂₅ NO ₈ |
| Functional Group 1 | Ester |
| Functional Group 2 | NHS |
| Functional Group 3 | None |
| Reactive Group 1 | Amine |
| IUPAC Name | <i>tert</i> -butyl 3-[2-[3-(2,5-Dioxopyrrolidin-1-yl)oxy-3-oxopropoxy]ethoxy]propanoate |
| InChI | InChI=1S/C16H25NO8/c1-16(2,3)24-14(20)6-8-22-10-11-23-9-7-15(21)25-17-12(18)4-5-13(17)19/h4-11H2,1-3H3 |
| InChI Key | LTSOBOMOTXJAAW-UHFFFAOYSA-N |
| Isomeric SMILES | CC(C)(C)OC(=O)CCOCCOCCC(=O)ON1C(=O)CCC1=O |
| Form | Solid or viscous liquid |
| Purity | 95% |
| Identity | Confirmed by NMR. |
| Applications | <i>t</i> -Butoxycarbonyl-PEG2-NHS ester is often utilized in organic synthesis and medicinal chemistry. In the synthesis of small molecule drugs, it can be used to introduce a PEG spacer and a protecting group simultaneously. The PEG moiety can enhance the solubility and bioavailability of the resulting compounds. |

Storage

Store at -20°C.
