

NHS PEG reagent, Bis-PEG11-NHS ester, Purity 95%

OC(=O)CCOCCOCCOCCOCCNCCOCCOCCOCCOCC(=O)O

CAS Number: 123502-57-8

PubChem CID: 123132043

Synonym: 123502-57-8; Bis-PEG11-NHS ester; BIS-PEG11-NHSESTER

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

Product Information

Description	Bis-PEG11-NHS ester is a compound featuring two PEG11 chains each terminated with an NHS ester. It is commonly employed in crosslinking and conjugation reactions to link multiple biomolecules or surfaces. The long PEG chains contribute to increased flexibility and reduced steric hindrance.
Molecular Weight	796.8
Molecular Formula	C ₃₄ H ₅₆ N ₂ O ₁₉
Functional Group 1	NHS
Functional Group 2	None
Functional Group 3	None
Reactive Group 1	Amine
IUPAC Name	(2,5-Dioxopyrrolidin-1-yl) 3-[2-[2-[2-[2-[2-[2-[2-[2-[3-(2,5-Dioxopyrrolidin-1-yl)oxy-3-oxopropoxy]ethoxy]ethoxy]ethoxy]ethoxy]ethoxy]ethoxy]ethoxy]ethoxy]ethoxy]propanoate
InChI	InChI=1S/C34H56N2O19/c37-29-1-2-30(38)35(29)54-33(41)5-7-43-9-11-45-13-15-47-17-19-49-21-23-51-25-27-53-28-26-52-24-22-50-20-18-48-16-14-46-12-10-44-8-6-34(42)55-36-31(39)3-4-32(36)40/h1-28H2
InChI Key	HOIRLEGKHJCOKZ-UHFFFAOYSA-N
Canonical SMILES	C1CC(=O)N(C1=O)OC(=O)CCOCCOCCOCCOCCOCCOCCOCCOCCOCCOCCOCCOCCC(=O)ON2C(=O)CCC2=O
Form	Solid or viscous liquid
Purity	95%
Solubility	DMSO, DCM, DMF
Identity	Confirmed by NMR.

Applications

This compound is useful for creating crosslinked networks in bioconjugation. The presence of two NHS esters allows for the simultaneous coupling to multiple amine-containing target molecules, which can be essential in the development of complex biomaterials or in the formation of antibody-drug conjugates.

Storage

Store at -20°C.