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

Maleimide/NHS ester PEG reagent, Mal-amido-PEG10-NHS, Purity 95%

Cat. No.: X24-03-YW0776

Size: 100 mg; 500 mg; 1 g

MDL: MFCD20226950

CAS Number: 1137109-22-8

PubChem CID: 118986681

Synonym: 1137109-22-8; Mal-amido-PEG10-C2-NHS ester; Mal-amido-PEG10-C2-NHS ester; Maleimidopropionyl-PEG10-NHS Ester

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

Product Information

Description	Mal-amido-PEG10-NHS is a PEG linker featuring a maleimide group, an amide linkage, and a terminal NHS ester group. The maleimide group is reactive with thiol groups, enabling the formation of covalent bonds with thiol-containing molecules. The NHS ester can react with primary amines to form stable amide bonds. The hydrophilic PEG spacer enhances the solubility of the compound in aqueous environments, making it suitable for various bioconjugation applications.
Molecular Weight	777.8
Molecular Formula	$C_{34}H_{55}N_3O_{17}$
Functional Group 1	Maleimide
Functional Group 2	NHS ester
Reactive Group 1	Amine
Reactive Group 2	Thiol
IUPAC Name	(2,5-Dioxopyrrolidin-1-yl) 3-[2-[2-[2-[2-[2-[2-[2-[2-[2-[2-[3-(2,5-dioxopyrrol-1-yl)propanoylamino]ethoxy]ethoxy]ethoxy]ethoxy]ethoxy]ethoxy]ethoxy]ethoxy]ethoxy]propanoate
InChI	InChI=1S/C34H55N3O17/c38-29(5-8-36-30(39)1-2-31(36)40)35-7-10-45-12-14-47-16-18-49-20-22-51-24-26-53-28-27-52-25-23-50-21-19-48-17-15-46-13-11-44-9-6-34(43)54-37-32(41)3-4-33(37)42/h1-2H,3-28H2,(H,35,38)
InChI Key	DUKFGPQZJAPKMG-UHFFFAOYSA-N
Canonical SMILES	C1CC(=O)N(C1=O)OC(=O)CCOCCOCCOCCOCCOCCOCCOCCOCCOCCOCCNC(=O)CCN2C(=O)C=CC2=O
Form	Solid
Purity	95%

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Identity	Confirmed by NMR.
Applications	Mal-amido-PEG10-NHS is ideal for bioconjugation and protein labeling, enabling stable attachments to thiol and amine groups. It is used in drug delivery systems, biomolecule modifications, and the development of diagnostic tools in research.
Storage	Store at -20°C.

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