Product Information

NHS/Maleimide PEG reagent, Mal-PEG5-NHS ester, Purity 98%

Cat. No.: X24-09-YYX193

Size: 100 mg; 250 mg; 500 mg **CAS Number:** 1807537-42-3

PubChem CID: 77078334

Synonym: 1807537-42-3; Mal-PEG5-NHS ester; Mal-PEG5-NHS; MAL-

PEG5-NHSESTER; 2,5-dioxopyrrolidin-1-yl

1-(2,5-dioxo-2,5-dihydro-1*H*-pyrrol-1-yl)-3,6,9,12,15-pentaoxaoctadecan-18-oate

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

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Description	Mal-PEG5-NHS ester acts as a PEG linker characterized by both maleimide and NHS ester functionalities. Its hydrophilic PEG spacer improves solubility when dissolved in water-based environments. The NHS ester allows for labeling primary amines <i>t</i> -found within proteins or other similar compounds containing amino groups, while the maleimide component reacts with thiol groups to form covalent bonds that enable connections between biomolecules with thiols.
Molecular Weight	486.5
Molecular Formula	$C_{21}H_{30}N_2O_{11}$
Functional Group 1	NHS
Functional Group 2	Ester
Functional Group 3	Maleimide
Reactive Group 1	Thiol
Reactive Group 2	Amine
IUPAC Name	(2,5-Dioxopyrrolidin-1-yl) 3-[2-[2-[2-[2-[2-(2,5-dioxopyrrol-1-yl)ethoxy]ethoxy]ethoxy]ethoxy]propanoate
InChi	InChl=1S/C21H30N2O11/c24-17-1-2-18(25)22(17)6-8-30-10-12-32-14-16-33-15-13-31-11-9-29-7-5-21(28)34-23-19(26)3-4-20(23)27/h1-2H,3-16H2
InChI Key	PDFXZGGPCFZXJU-UHFFFAOYSA-N
Canonical SMILES	C1CC(=O)N(C1=O)OC(=O)CCOCCOCCOCCOCCN2C(=O)C=CC2=O
Form	Solid or viscous liquid
Purity	98%

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Storage	Store at -20°C.
Applications	Mal-PEG5-NHS ester is often utilized in the conjugation of biomolecules for targeted drug delivery or as a linker in various biotechnological applications.
Identity	Confirmed by NMR.
Solubility	DMSO, DCM, DMF