

Maleimide/NHS PEG reagent, Mal-PEG8-NHS ester, Purity 98%

C#CCCCOCCOCCOCCOCCSCCOC(=O)CC

MDL: MFCD26127784

CAS Number: 2055033-05-9

PubChem CID: 123132102

[illegible]

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

Product Information

Description	Mal-PEG8-NHS ester contains a maleimide group, a PEG8 chain, and an NHS ester. It is valuable for targeted conjugation, especially with thiol-containing biomolecules. The PEG8 chain contributes to improved properties and the NHS ester allows for coupling reactions.
Molecular Weight	618.6
Molecular Formula	C ₂₇ H ₄₂ N ₂ O ₁₄
Functional Group 1	Maleimide
Functional Group 2	NHS
Functional Group 3	None
Reactive Group 1	Amine
Reactive Group 2	Thiol
IUPAC Name	(2,5-Dioxopyrrolidin-1-yl) 3-[2-[2-[2-[2-[2-[2-(2,5-dioxopyrrol-1-yl)ethoxy]ethoxy]ethoxy]ethoxy]ethoxy]ethoxy]ethoxy]propanoate
InChI	InChI=1S/C27H42N2O14/c30-23-1-2-24(31)28(23)6-8-36-10-12-38-14-16-40-18-20-42-22-21-41-19-17-39-15-13-37-11-9-35-7-5-27(34)43-29-25(32)3-4-26(29)33/h1-2H,3-22H2
InChI Key	JJKBMZPIICCSX-UHFFFAOYSA-N
Canonical SMILES	C1CC(=O)N(C1=O)OC(=O)CCOCCOCCOCCOCCOCCOCCOCCOCCN2C(=O)C=CC2=O
Form	Solid or viscous liquid
Purity	98%
Solubility	DMSO, DCM, DMF

Identity	Confirmed by NMR.
Applications	This compound features both maleimide and NHS functionalities, allowing for efficient conjugation to thiol-containing biomolecules (<i>via</i> maleimide) and amine groups (<i>via</i> NHS), making it versatile in protein labeling and modification.
Storage	Store at -20°C.