

Product Information

NHS PEG reagent, m-PEG25-NHS ester, Purity 97%

Cat. No.: X24-09-YYX229

Size: 100 mg; 500 mg; 1 g

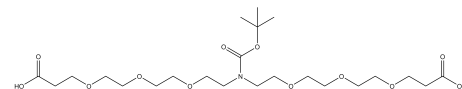
CAS Number: 174569-25-6

PubChem CID: 51340984

Synonym: mPEG24-CH₂CH₂COONHS ester; mPEG24-OCH₂CH₂COONHS ester;

mPEG24-OCH₂CH₂COONHS ester

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



Product Information

Description	m-PEG25-NHS ester acts as another PEG linker characterized by its inclusion of an NHS ester moiety, which allows it to label primary amines <i>t</i> -located within proteins or other related substances containing amino functionalities like modified oligonucleotides. Additionally, the hydrophilic nature of its PEG spacer increases solubility in aqueous environments, making it useful for various applications during research.
Molecular Weight	1258.5
Molecular Formula	C ₅₆ H ₁₀₇ NO ₂₉
Functional Group 1	Ester
Functional Group 2	NHS
Functional Group 3	None
Reactive Group 1	Amine
IUPAC Name	(2,5-Dioxopyrrolidin-1-yl) 3-(2-methoxyethoxy)propanoate
InChI	InChI=1S/C10H15NO6/c1-15-6-7-16-5-4-10(14)17-11-8(12)2-3-9(11)13/h2-7H2,1H3
InChI Key	IMSXKORGQVCNT-UHFFFAOYSA-N
Canonical SMILES	COCCOCCC(=O)ON1C(=O)CCC1=O
Form	Solid or viscous liquid
Purity	97%
Identity	Confirmed by NMR.
Applications	In drug delivery, it can be used to PEGylate drugs or nanoparticles, increasing their circulation time and reducing clearance by the immune system. The long PEG chain provides enhanced stealth properties. It can also be used in the modification of biomolecules, such as antibodies and enzymes, to improve their stability and solubility.

Storage

Store at -20°C.
