

## Product Information

### NHS PEG reagent, m-PEG1-NHS ester, Purity 98%

**Cat. No.:** X24-09-YYX187

**Size:** 500 mg; 1 g; 5 g

**CAS Number:** 1027371-75-0

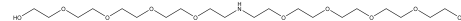
**PubChem CID:** 23596588

**Synonym:** 1027371-75-0; m-PEG1-NHS ester; 2,5-Dioxopyrrolidin-1-yl

3-methoxypropanoate; M-PEG1-NHSESTER; (2,5-dioxopyrrolidin-1-yl)

3-methoxypropanoate

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



#### Product Information

<b>Description</b>	m-PEG1-NHS ester serves as a PEG linker that includes an NHS ester functionality. This NHS ester is suitable for labeling primary amines <i>t</i> -present in proteins, amine-modified oligonucleotides, and other molecules containing amino groups. The hydrophilic nature of its PEG spacer improves solubility when dissolved in aqueous media.
<b>Molecular Weight</b>	201.2
<b>Molecular Formula</b>	C <sub>8</sub> H <sub>11</sub> NO <sub>5</sub>
<b>Functional Group 1</b>	Ester
<b>Functional Group 2</b>	NHS
<b>Functional Group 3</b>	None
<b>Reactive Group 1</b>	Amine
<b>IUPAC Name</b>	(2,5-Dioxopyrrolidin-1-yl) 3-methoxypropanoate
<b>InChI</b>	InChI=1S/C8H11NO5/c1-13-5-4-8(12)14-9-6(10)2-3-7(9)11/h2-5H2,1H3
<b>InChI Key</b>	GDPPBYZKFEXML-UHFFFAOYSA-N
<b>Isomeric SMILES</b>	COCCC(=O)ON1C(=O)CCC1=O
<b>Form</b>	Solid or viscous liquid
<b>Purity</b>	98%
<b>Solubility</b>	DCM
<b>Identity</b>	Confirmed by NMR.
<b>Applications</b>	This reagent is used for protein labeling and in the modification of biomolecules. The NHS ( <i>N</i> -hydroxysuccinimide) ester reacts with amine groups in proteins, enabling the formation of stable

	amide bonds.
Storage	Store at -20°C.