

## Product Information

### Maleimide/NHS PEG reagent, Mal-PEG3-NHS ester, Purity 98%

**Cat. No.:** X24-09-YYX211

**Size:** 100 mg; 250 mg; 500 mg; 1 g

**CAS Number:** 1537892-36-6

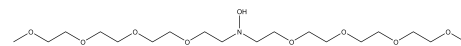
**PubChem CID:** 77078335

**Synonym:** 1537892-36-6; Mal-PEG3-NHS ester; Mal-PEG3-NHS; MAL-

PEG3-NHSESTER; (2,5-dioxopyrrolidin-1-yl)

3-[2-[2-[2-(2,5-dioxopyrrol-1-yl)ethoxy]ethoxy]ethoxy]propanoate

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



#### Product Information

<b>Description</b>	Mal-PEG3-NHS ester serves as a PEG linker featuring both a maleimide group and an NHS ester moiety. The hydrophilic nature of its PEG spacer improves solubility in water-based environments. This NHS ester allows for labeling primary amines <i>t</i> -present within proteins or other similar compounds containing amino functionalities, while the maleimide group reacts with thiol groups to create covalent bonds that facilitate connections between biomolecules and thiols.
<b>Molecular Weight</b>	398.4
<b>Molecular Formula</b>	C <sub>17</sub> H <sub>22</sub> N <sub>2</sub> O <sub>9</sub>
<b>Functional Group 1</b>	Ester
<b>Functional Group 2</b>	Maleimide
<b>Functional Group 3</b>	NHS
<b>Reactive Group 1</b>	Thiol
<b>Reactive Group 2</b>	Amine
<b>IUPAC Name</b>	(2,5-Dioxopyrrolidin-1-yl) 3-[2-[2-[2-(2,5-dioxopyrrol-1-yl)ethoxy]ethoxy]ethoxy]propanoate
<b>InChI</b>	InChI=1S/C17H22N2O9/c20-13-1-2-14(21)18(13)6-8-26-10-12-27-11-9-25-7-5-17(24)28-19-15(22)3-4-16(19)23/h1-2H,3-12H2
<b>InChI Key</b>	IIXXEVQHRSMN0B-UHFFFAOYSA-N
<b>Canonical SMILES</b>	C1CC(=O)N(C1=O)OC(=O)CCOCCOCCOCCN2C(=O)C=CC2=O
<b>Form</b>	Solid or viscous liquid
<b>Purity</b>	98%
<b>Solubility</b>	DCM

Identity	Confirmed by NMR.
Applications	Mal-PEG3-NHS ester is commonly used for conjugating biomolecules to create targeted drug delivery systems or for modifying surfaces in biotechnological applications.
Storage	Store at -20°C.