

Product Information

Azide/Maleimide PEG reagent, Azido-PEG3-maleimide kit, Purity 95%

Cat. No.: X24-09-YYX327

Size: 25 mg; 100 mg; 250 mg; 1 g

CAS Number: 1858264-36-4

PubChem CID: 86580438

Synonym: 1858264-36-4; Azido-PEG3-Maleimide; Azido-PEG3-maleimide kit;

N_3 -PEG3-Mal; *N*

-[2-[2-[2-(2-azidoethoxy)ethoxy]ethoxy]ethyl]-3-(2,5-dioxopyrrol-1-yl)propanamide

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



Product Information

Description	Azido-PEG3-Maleimide is supplied as a kit consisting of two components. It is not stable for long-term storage and must be prepared in situ by combining azido-PEG3-amine with maleimide-NHS ester, followed by shaking or stirring for 30 minutes at room temperature. The maleimide moiety in azido-PEG3-maleimide can react with thiol groups to form covalent bonds, facilitating the attachment of biomolecules containing thiols.
Molecular Weight	369.4
Molecular Formula	$C_{15}H_{23}N_5O_6$
Functional Group 1	Azide
Functional Group 2	Maleimide
Functional Group 3	None
Reactive Group 1	Alkynyl
Reactive Group 2	Alkyne
Reactive Group 3	Thiol
IUPAC Name	<i>N</i> -[2-[2-[2-(2-Azidoethoxy)ethoxy]ethoxy]ethyl]-3-(2,5-dioxopyrrol-1-yl)propanamide
InChI	InChI=1S/C15H23N5O6/c16-19-18-5-8-25-10-12-26-11-9-24-7-4-17-13(21)3-6-20-14(22)1-2-15(20)23/h1-2H,3-12H2,(H,17,21)
InChI Key	OGSSEPXEBBNVGN-UHFFFAOYSA-N
Canonical SMILES	<chem>C1=CC(=O)N(C1=O)CCC(=O)NCCOCCOCCOCCN=[N+]=[N-]</chem>
Form	Solid
Purity	95%

Identity	Confirmed by NMR.
Applications	Azido-PEG3-maleimide kit is commonly used for conjugating thiol-containing biomolecules, such as proteins, through the maleimide-thiol reaction. The PEG moiety improves properties like solubility.
Storage	Store at -20°C.
