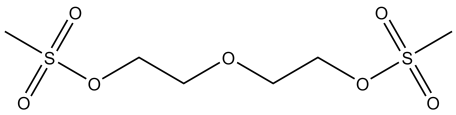
SUITE 201, 17 Ramsey Road, Shirley, NY 11967, USA
Tel: 1-631-637-6119 | Email: info@bioglyco.com

Product Information

Azide/NHS PEG reagent, *N*-(Azido-PEG4)-*N*-bis(PEG4-NHS ester), Purity 98%



Cat. No.: X24-09-YYX351

Size: 100 mg; 250 mg; 500 mg

CAS Number: 2353409-90-0

PubChem CID: 137334071

Synonym: 2353409-90-0; Azide/NHS PEG reagent; *N*-(Azido-PEG4)-*N*-bis(PEG4-NHS ester)

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

Product Information

Description	*N*-(Azido-PEG4)-*N*-bis(PEG4-NHS ester) functions as a branched chemical linker containing two NHS ester groups along with one terminal azide. The NHS esters are utilized to label primary amines *t*-found in proteins and other molecules attached to amines.
Molecular Weight	981
Molecular Formula	$C_{41}H_{68}N_6O_{21}$
Functional Group 1	NHS
Functional Group 2	Azide
Functional Group 3	Ester
Reactive Group 1	Alkyne
Reactive Group 2	Amine
IUPAC Name	(2,5-Dioxopyrrolidin-1-yl) 3-[2-[2-[2-[2-[3-[2-[2-[2-(2-azidoethoxy)ethoxy]ethoxy]ethoxy]propanoyl-[2-[2-[2-[2-[3-(2,5-dioxopyrrolidin-1-yl)oxy-3-oxopropoxy]ethoxy]ethoxy]ethoxy]ethyl]amino]ethoxy]ethoxy]ethoxy]propanoate
InChI	InChI=1S/C41H68N6O21/c42-44-43-8-14-58-20-26-64-32-29-61-23-17-55-11-5-35(48)45(9-15-59-21-27-65-33-30-62-24-18-56-12-6-40(53)67-46-36(49)1-2-37(46)50)10-16-60-22-28-66-34-31-63-25-19-57-13-7-41(54)68-47-38(51)3-4-39(47)52/h1-34H2
InChI Key	OYVKKJHNNQYSIS-UHFFFAOYSA-N
Canonical SMILES	C1CC(=O)N(C1=O)OC(=O)CCOCCOCCOCCOCCN(CCOCCOCCOCCOCCC(=O)ON2C(=O)CCC2=O)C(=O)CCOCCOCCOCCOCCN=[N+]=[N-]
Form	Solid
Purity	98%

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Identity	Confirmed by NMR.
Applications	This compound is commonly used in bioconjugation reactions. The NHS ester groups can react with amine groups on biomolecules such as proteins or antibodies, while the azide and PEG4 moieties provide solubility and flexibility. It can be employed in the development of antibody-drug conjugates or protein modification for therapeutic or diagnostic purposes.
Storage	Store at -20°C.