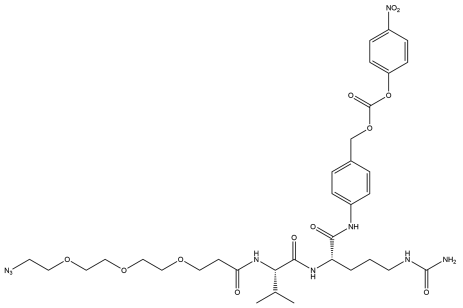
SUITE 201, 17 Ramsey Road, Shirley, NY 11967, USA

Tel: 1-631-637-6119 | Email: info@bioglyco.com

Product Information

Azide/PNP PEG reagent, Azido-PEG3-Val-Cit-PAB-PNP, Purity 98%



Cat. No.: X24-03-YW0451

Size: 50 mg; 100 mg; 250 mg

CAS Number: 2055047-18-0

PubChem CID: 123132062

Synonym: 2055047-18-0; Azido-PEG3-Val-Cit-PAB-PNP; SCHEMBL23498013; DTXSID601100304; AKOS040741241

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

Product Information

Description	Azido-PEG3-Val-Cit-PAB-PNP is a reagent grade cleavable peptide ADC linker featuring an azido group, a Val-Cit linker cleavable by Cathepsin B, and a PNP group.
Molecular Weight	773.8
Molecular Formula	$C_{34}H_{47}N_9O_{12}$
Functional Group 1	Azide
Functional Group 2	PNP
Functional Group 3	None
Reactive Group 1	Alkyne
Reactive Group 2	Amine
IUPAC Name	[4-[[(2*S*)-2-[[(2*S*)-2-[3-[2-[2-(2-Azidoethoxy)ethoxy]ethoxy]propanoylamino]-3-methylbutanoyl]amino]-5-(carbamoylamino)pentanoyl]amino]phenyl]methyl (4-nitrophenyl) carbonate
InChI	InChI=1S/C34H47N9O12/c1-23(2)30(41-29(44)13-16-51-18-20-53-21-19-52-17-15-38-42-36)32(46)40-28(4-3-14-37-33(35)47)31(45)39-25-7-5-24(6-8-25)22-54-34(48)55-27-11-9-26(10-12-27)43(49)50/h5-12,23,28,30H,3-4,13-22H2,1-2H3,(H,39,45)(H,40,46)(H,41,44)(H3,35,37,47)/t28-,30-/m0/s1
InChI Key	HLBCDJANEWKOSX-JDXGNMNLSA-N
Canonical SMILES	CC(C)C(C(=O)NC(CCCNC(=O)N)C(=O)NC1=CC=C(C=C1)COC(=O)OC2=CC=C(C=C2)[N+](=O)[O-])NC(=O)CCOCCOCCOCCN=[N+]=[N-]
Isomeric SMILES	CC(C)[C@@H](C(=O)N[C@@H](CCCNC(=O)N)C(=O)NC1=CC=C(C=C1)COC(=O)OC2=CC=C(C=C2)[N+](=O)[O-])NC(=O)CCOCCOCCOCCN=[N+]=[N-]
Form	Solid

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Purity	98%
Solubility	DMSO, DMF
Identity	Confirmed by NMR.
Applications	Azido-PEG3-Val-Cit-PAB-PNP is used in targeted drug delivery and bioconjugation research, enabling specific payload release within cells due to Cathepsin B cleavage, and facilitating Click Chemistry reactions with DBCO, BCN, or alkyne groups.
Storage	Store at -20°C.

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