Product Data Sheet

Product Name: Azido-PEG3-Val-Cit-PAB-PNP
Cat. No.: GC60069

Chemical Properties

Cas. No.	2055047-18-0		
SMILES	O=C(N)[C@H](CCCNC(N)=O)N(C([C@H](C(C)C)NC(CCOCCOCCOCCN=[N+]=[N-])=O)=O)C1=CC=C(COC(OC2=CC=C([N+]([O-])=O)C=C2)=O)C=C1		
Formula	$C_{34}H_{47}N_9O_{12}$	M.Wt	773.79
Solubility		Storage	
General tips	For obtaining a higher solubility , please warm the tube at 37 ℃ and shake it in the ultrasonic bath for a while.Stock solution can be stored below -20℃ for several months.		
Shipping Condition	Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.		
Structure	Azido-PEG3-Val-Cit-PAB-PNP		

Background

Azido-PEG3-Val-Cit-PAB-PNP is a cleavable 3 unit PEG ADC linker used in the synthesis of antibody-drug conjugates (ADCs)[1]. Azido-PEG3-Val-Cit-PAB-PNP is also a PEG-based PROTAC linker that can be used in the synthesis of PROTACs[2].

ADCs are comprised of an antibody to which is attached an ADC cytotoxin through an ADC linker[1].PROTACs contain two different ligands connected by a linker; one is a ligand for an E3 ubiquitin ligase and the other is for the target protein. PROTACs exploit the intracellular ubiquitin-proteasome system to selectively degrade target proteins[2].

[1]. Dan N, et al. Antibody-Drug Conjugates for Cancer Therapy: Chemistry to Clinical Implications. Pharmaceuticals (Basel). 2018 Apr 9;11(2). pii: E32. [2]. An S, et al. Small-molecule PROTACs: An emerging and promising approach for the development of targeted therapy drugs. EBioMedicine. 2018 Oct;36:553-562.

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