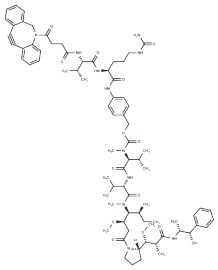
Data Sheet (Cat.No.T212667)

TargetMol

DBCO-Val-Cit-PAB-MMAE

Chemical Properties



CAS No. : 2768446-73-5

Formula: C77H107N11O14

Molecular Weight: 1410.74

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year
Actual storage temperature shall be subject to the COA.

Biological Description

Description	DBCO-Val-Cit-PAB-MMAE is a linker-toxin complex designed for the construction of antibody-drug conjugates (ADCs). It consists of a DBCO (dibenzocyclooctyne) click chemistry group, a protease-cleavable Val-Cit dipeptide linker, a p-aminobenzyl (PAB) self-cleaving spacer, and the microtubule inhibitor MMAE. DBCO-Val-Cit-PAB-MMAE can be conjugated to azide-containing biomolecules via a copper-free click reaction. Upon cleavage by lysosomal proteases within the cell, it releases MMAE, thereby inducing cell cycle arrest and cell death.
Targets(IC50)	Drug-Linker Conjugates for ADC

Solubility Information

Solubility	DMSO: 25 mg/mL (17.72 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	0.7088 mL	3.5442 mL	7.0885 mL
5 mM	0.1418 mL	0.7088 mL	1.4177 mL
10 mM	0.0709 mL	0.3544 mL	0.7088 mL
50 mM	0.0142 mL	0.0709 mL	0.1418 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Huang W, et al., Affinity fragment-directed cleavable fragments, their design, synthesis and use in the preparation of site-directed drug conjugates. CN116836235 A.

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