

MC-Sq-Cit-PAB-Dolastatin10

Chemical Properties

CAS No. : 1941168-65-5

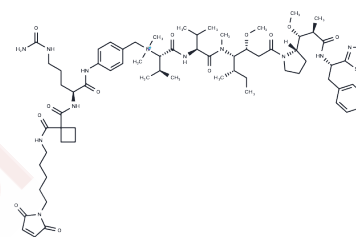
Formula: C70H105N12O12S

Molecular Weight: 1338.72

Keep away from direct sunlight

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	MC-Sq-Cit-PAB-Dolastatin10 is a potent antitumor drug-linker conjugate for Antibody-Drug Conjugates (ADC), incorporating Dolastatin10 (a tubulin polymerization inhibitor) connected via the MC-Sq-Cit-PAB ADC linker.
Targets(IC50)	Drug-Linker Conjugates for ADC,PROTAC Linker
In vitro	ADC1-2 (anti-CD22 10F4v3 LC K149C MC-Sq-Cit-PAB-Dolastatin 10) demonstrates selective cytotoxicity against WSU-DLCL2 human diffuse large B-cell lymphoma tumors with an IC50 value of 0.385 nM. Similarly, ADC1-1 (anti-Napi2b 10H1 11.4B LC K149C MC-Sq-Cit-PAB-Dolastatin 10) exhibits specific cytotoxic effects on human ovarian cancer cell lines IGROV-1 and OVCAR-3x2.1, with IC50 values of 3.19 nM and 1.52 nM, respectively[1].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	0.747 mL	3.7349 mL	7.4698 mL
5 mM	0.1494 mL	0.747 mL	1.494 mL
10 mM	0.0747 mL	0.3735 mL	0.747 mL
50 mM	0.0149 mL	0.0747 mL	0.1494 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

FLYGARE, John A, et al. Quaternary amine compounds and antibody-drug conjugates thereof. WO2016090050A1.
Staben LR, et al. Targeted drug delivery through the traceless release of tertiary and heteroaryl amines from antibody-drug conjugates. Nat Chem. 2016 Dec;8(12):1112-1119.

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