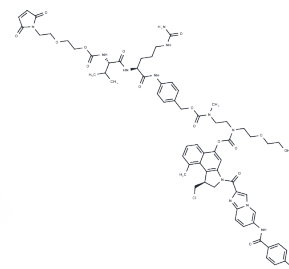


Vc-seco-DUBA

Chemical Properties

CAS No. :	1345681-58-4
Formula:	C ₆₅ H ₇₅ ClN ₁₂ O ₁₇
Molecular Weight:	1331.81
Storage:	Keep away from direct sunlight Powder: -20°C for 3 years In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small>



Biological Description

Description	Vc-seco-DUBA (Duocarmazine) is a linker-payload conjugate designed for the synthesis of Antibody-Drug Conjugates (ADCs). It consists of the potent DNA alkylating payload DUBA (a duocarmycin analog) connected via the Vc-seco linker. This conjugate is engineered to enable the targeted delivery of highly cytotoxic DNA-alkylating agents specifically to tumor cells through antibody guidance. DUBA exerts its effect by binding to the minor groove of DNA and causing alkylation, which leads to DNA damage and subsequent apoptosis, demonstrating potent antitumor efficacy.
Targets(IC50)	Apoptosis, Drug-Linker Conjugates for ADC, DNA Alkylation

Solubility Information

Solubility	DMSO: 80 mg/mL (60.07 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	0.7509 mL	3.7543 mL	7.5086 mL
5 mM	0.1502 mL	0.7509 mL	1.5017 mL
10 mM	0.0751 mL	0.3754 mL	0.7509 mL
50 mM	0.015 mL	0.0751 mL	0.1502 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

Samantha Congreve, et al. Antibody drug conjugates (ADC) Current status and mapping of ADC:s in clinical programs.

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