

Duocarmycin DM free base

Chemical Properties

CAS No. : 1116745-06-2

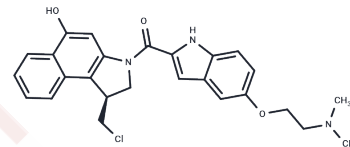
Formula: C₂₆H₂₆ClN₃O₃

Molecular Weight: 463.96

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	Duocarmycin DM free base is a potent DNA alkylator and antitumor antibiotic. It induces DNA damage via sequence-specific alkylation in the minor groove, commonly used as an ADC payload in cancer research.
Targets(IC50)	ADC Cytotoxin,DNA Alkylation
In vitro	Duocarmycin DM free base exhibits picomolar cytotoxicity (IC ₅₀ = 3.87-22 pM) by alkylating adenine N3 in the DNA minor groove [1][2].

Solubility Information

Solubility	DMSO: 40 mg/mL (86.21 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	2.1554 mL	10.7768 mL	21.5536 mL
5 mM	0.4311 mL	2.1554 mL	4.3107 mL
10 mM	0.2155 mL	1.0777 mL	2.1554 mL
50 mM	0.0431 mL	0.2155 mL	0.4311 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

Zaneta Nikolovska-Coleska, et al. Small molecule inhibitors of mcl-1 and uses thereof. Patent. WO2015153959A2.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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