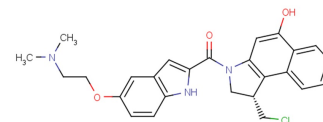


Duocarmycin

Chemical Properties

CAS No.:	1116745-06-2
Formula:	C ₂₆ H ₂₆ ClN ₃ O ₃
Molecular Weight:	463.96
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).



Biological Description

Description	Duocarmycin is a DNA minor groove binding alkylating agent and explored as drug-antibody conjugates (ADCs). Duocarmycin is based on its characteristic curved indole structure and a spirocyclopropylcyclohexadienone electrophile to act anticancer activity.
Targets(IC ₅₀)	Others: None

Solubility Information

Solubility	< 1 mg/ml refers to the product slightly soluble or insoluble
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.155 mL	10.777 mL	21.554 mL
5 mM	0.431 mL	2.155 mL	4.311 mL
10 mM	0.216 mL	1.078 mL	2.155 mL
50 mM	0.043 mL	0.216 mL	0.431 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 °C for 6 months; - 20 °C for 1 month. Please use it as soon as possible.

Reference

1. Koch MF, et al. Structural, Biochemical, and Computational Studies Reveal the Mechanism of Selective Aldehyde Dehydrogenase 1A1 Inhibition by Cytotoxic Duocarmycin Analogues. Angew Chem Int Ed Engl. 2015 Nov 9;54(46):13550-4.

Inhibitors · Natural Compounds · Compound Libraries

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