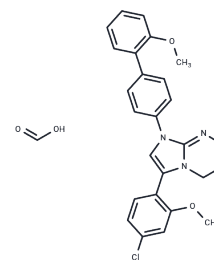


IGUANA-1

Chemical Properties

CAS No. :	2756014-25-0
Formula:	C ₂₇ H ₂₆ ClN ₃ O ₄
Molecular Weight:	491.97
Storage:	Keep away from direct sunlight, Keep away from moisture 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	IGUANA-1 is a highly efficient and selective ALDH1B1 inhibitor that inhibits the growth of colorectal cancer cells and colorectal cancer-derived organoids.
Targets(IC50)	Dehydrogenase

Solubility Information

Solubility	DMSO: 40 mg/mL (81.31 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 1 mg/mL (2.03 mM), Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.0326 mL	10.1632 mL	20.3264 mL
5 mM	0.4065 mL	2.0326 mL	4.0653 mL
10 mM	0.2033 mL	1.0163 mL	2.0326 mL
50 mM	0.0407 mL	0.2033 mL	0.4065 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

Feng Z, et al. Targeting colorectal cancer with small-molecule inhibitors of ALDH1B. *Nat Chem Biol.* 2022 Oct;18(10):1065-1075.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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