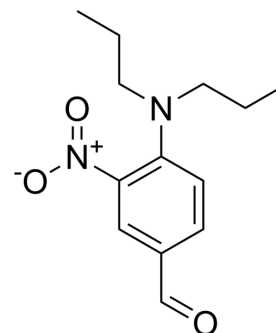


ALDH3A1-IN-1

Cat. No.:	HY-144670		
CAS No.:	1039855-56-5		
Molecular Formula:	C ₁₃ H ₁₈ N ₂ O ₃		
Molecular Weight:	250.29		
Target:	Aldehyde Dehydrogenase (ALDH)		
Pathway:	Metabolic Enzyme/Protease		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro	DMSO : 100 mg/mL (399.54 mM; ultrasonic and warming and heat to 60°C)				
		Solvent Concentration	Mass 1 mg	5 mg	10 mg
	Preparing Stock Solutions	1 mM	3.9954 mL	19.9768 mL	39.9537 mL
		5 mM	0.7991 mL	3.9954 mL	7.9907 mL
10 mM		0.3995 mL	1.9977 mL	3.9954 mL	
Please refer to the solubility information to select the appropriate solvent.					
In Vivo	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.5 mg/mL (9.99 mM); Clear solution 2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (9.99 mM); Clear solution				

BIOLOGICAL ACTIVITY

Description	ALDH3A1-IN-1 (Compound 18) is a potent inhibitor of ALDH3A1 with an IC ₅₀ of 1.61 μM. ALDH3A1-IN-1 is more potent than DEAB against patient-derived primary prostate tumor epithelial cells, as single agents or in combination research with docetaxel ^[1] .
IC₅₀ & Target	ALDH3

REFERENCES

Caution: Product has not been fully validated for medical applications. For research use only.

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