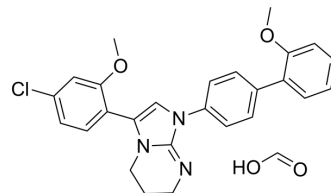


## IGUANA-1

Cat. No.:	HY-148466
CAS No.:	2756014-25-0
Molecular Formula:	C <sub>27</sub> H <sub>26</sub> ClN <sub>3</sub> O <sub>4</sub>
Molecular Weight:	491.97
Target:	Aldehyde Dehydrogenase (ALDH)
Pathway:	Metabolic Enzyme/Protease
Storage:	-20°C, sealed storage, away from moisture * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)



### SOLVENT & SOLUBILITY

In Vitro	DMSO : 50 mg/mL (101.63 mM; ultrasonic and warming and heat to 60°C)						
	Preparing Stock Solutions	Solvent Concentration	Mass	1 mg	5 mg	10 mg	
				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
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: ≥ 1 mg/mL (2.03 mM); Clear solution						
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 1 mg/mL (2.03 mM); Clear solution						
	3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 1 mg/mL (2.03 mM); Clear solution						

### BIOLOGICAL ACTIVITY

Description	IGUANA-1 is a potent inhibitor of ALDH1B1, which is a mitochondrial enzyme that promotes colorectal and pancreatic cancer. IGUANA-1 has significant inhibition against cancer cells <sup>[1]</sup> .
IC <sub>50</sub> & Target	ALDH1

### REFERENCES

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

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