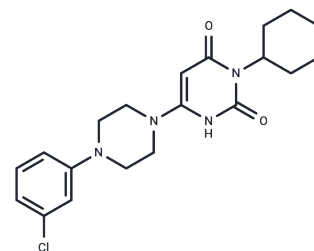


ML-180

Chemical Properties

CAS No. : 863588-32-3
Formula: C₂₀H₂₅ClN₄O₂
Molecular Weight: 388.89
Appearance: no data available
Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year



Biological Description

Description	ML-180 (SR1848) is a potent orphan nuclear receptor liver receptor homolog 1 (LRH-1; NR5A2) inverse agonist (IC ₅₀ of 3.7 μM) .
Targets(IC ₅₀)	Others
In vitro	ML-180 (0.5-5 μM; 24 hours) shows a significant inhibition of cyclin-D1 and cyclin-E1 expression in hepatic cells, but has little effect on repression in SK-OV-3 cells[2]. ML-180 (5 μM; 24 hours) leads to a rapid decrease of LRH-1 expression and efficiently represses endogenous LRH-1 signaling[2].
In vivo	ML-180 has a statistically significant decrease of both LRH-1 and SHP mRNA in adrenal glands and pancreatic tissue[2].

Solubility Information

Solubility	DMSO: 11 mg/mL (28.28 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	2.5714 mL	12.8571 mL	25.7142 mL
5 mM	0.5143 mL	2.5714 mL	5.1428 mL
10 mM	0.2571 mL	1.2857 mL	2.5714 mL
50 mM	0.0514 mL	0.2571 mL	0.5143 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.

Reference

Busby S, et al. Discovery of Inverse Agonists for the Liver Receptor Homologue-1 (LRH1; NR5A2).

Corzo CA, et al. Antiproliferation activity of a small molecule repressor of liver receptor homolog 1. Mol Pharmacol.

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