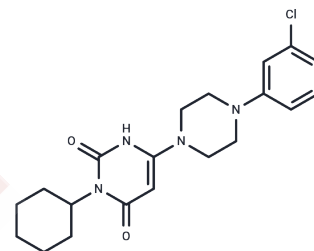


ML-180

Chemical Properties

CAS No. :	863588-32-3
Formula:	C ₂₀ H ₂₅ ClN ₄ O ₂
Molecular Weight:	388.89
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.



Biological Description

Description	ML-180 (SR1848) is a potent inverse agonist of the orphan nuclear receptor liver receptor homolog 1 (LRH-1; NR5A2) with an IC ₅₀ of 3.7 μM.
Targets(IC ₅₀)	Others,Orphan Receptor
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: 19.5 mg/mL (50.14 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.

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

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. 2015 Feb;87(2):296-304.

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