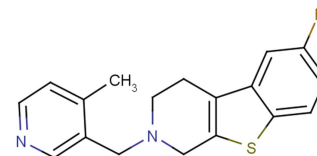


CYP17-IN-1

Chemical Properties

CAS No.:	2093317-51-0
Formula:	C ₁₈ H ₁₇ FN ₂ S
Molecular Weight:	312.4
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).



Biological Description

Description	CYP17-IN-1 is an effective oral CYP17 inhibitor that can inhibit CYP17 in rats and humans with IC ₅₀ of 15.8 and 20.1 nM.
Targets(IC ₅₀)	Rat CYP17: 15.8 nM Human CYP17: 20.1 nM
In vitro	The IC ₅₀ value of CYP17-IN-1 for CYP3A4 is 8.5 μM.
In vivo	CYP17-IN-1 reduced plasma testosterone levels in Sprague-Dawley rats in a dose-dependent manner.

Solubility Information

Solubility	< 1 mg/ml refers to the product slightly soluble or insoluble
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.201 mL	16.005 mL	32.01 mL
5 mM	0.64 mL	3.201 mL	6.402 mL
10 mM	0.32 mL	1.601 mL	3.201 mL
50 mM	0.064 mL	0.32 mL	0.64 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 °C for 6 months; - 20 °C for 1 month. Please use it as soon as possible.

Reference

1. Wang M, et al. Discovery of novel 1,2,3,4-tetrahydrobenzo[4, 5]thieno[2, 3-c]pyridine derivatives as potent and selective CYP17 inhibitors. Eur J Med Chem. 2017 May 26;132:157-172.

Inhibitors · Natural Compounds · Compound Libraries

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