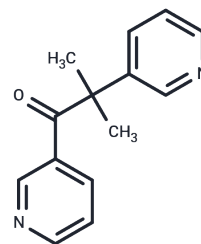


Metyrapone

Chemical Properties

CAS No. :	54-36-4
Formula:	C ₁₄ H ₁₄ N ₂ O
Molecular Weight:	226.27
Storage:	Store under nitrogen Powder: -20°C for 3 years In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small>



Biological Description

Description	Metyrapone (NSC-25265) is an inhibitor of the enzyme STEROID 11-BETA-MONOOXYGENASE. It is used as a test of the feedback hypothalamic-pituitary mechanism in the diagnosis of CUSHING SYNDROME.
Targets(IC50)	Endogenous Metabolite, Autophagy, Cytochromes P450, Dehydrogenase

Solubility Information

Solubility	DMSO: 125 mg/mL (552.44 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 2 mg/mL (8.84 mM), Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	4.4195 mL	22.0975 mL	44.195 mL
5 mM	0.8839 mL	4.4195 mL	8.839 mL
10 mM	0.4419 mL	2.2097 mL	4.4195 mL
50 mM	0.0884 mL	0.4419 mL	0.8839 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

Shiro Y, et al. Biochemistry. 1995 Jul 18;34(28):9052-8.

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