

CYP11B2-IN-1

Chemical Properties

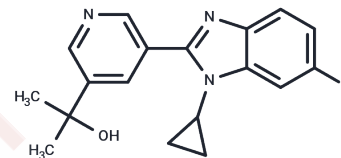
CAS No. : 1356479-78-1

Formula: C₁₈H₁₈FN₃O

Molecular Weight: 311.35

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	CYP11B2-IN-1 is an effective and selective inhibitor of CYP11B2 with IC ₅₀ s of 2.3 nM and 142 nM for CYP11B2 and CYP11B1.
Targets(IC ₅₀)	Cytochromes P450
In vitro	The IC ₅₀ of CYP11B2-IN-1 for CYP19 is 1021 nM[1].
In vivo	CYP11B2-IN-1 dose-dependently produces aldosterone lowering efficacy without affecting cortisol levels in rhesus pharmacodynamic models. CYP11B2-IN-1 (0.01 and 0.3 mg/kg; i.v.) reduces aldosterone AUC of 62% and 95%, respectively[1].

Solubility Information

Solubility	DMSO: 50 mg/mL (160.59 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 (6.42 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	3.2118 mL	16.0591 mL	32.1182 mL
5 mM	0.6424 mL	3.2118 mL	6.4236 mL
10 mM	0.3212 mL	1.6059 mL	3.2118 mL
50 mM	0.0642 mL	0.3212 mL	0.6424 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

Hoyt SB, et al. Discovery of Benzimidazole CYP11B2 Inhibitors with in Vivo Activity in Rhesus Monkeys. ACS Med Chem Lett. 2015 Apr 7;6(5):573-8.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

Tel: 781-999-4286 E_mail: info@targetmol.com Address: 34 Washington Street, Wellesley Hills, MA 02481