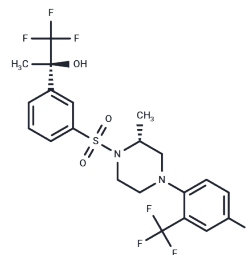


HSD-016

## Chemical Properties

CAS No. : 946396-92-5  
 Formula: C<sub>21</sub>H<sub>21</sub>F<sub>7</sub>N<sub>2</sub>O<sub>3</sub>S  
 Molecular Weight: 514.46  
 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	HSD-016 is an orally active, selective and potent type 1 11β-hydroxysteroid dehydrogenase (11β-HSD1) inhibitor with strong inhibitory effects on human, mouse and rat 11β-HSD1. HSD-016 can be used in the study of diabetes and metabolic syndrome.
Targets(IC50)	Dehydrogenase

## Solubility Information

Solubility	DMSO: 80 mg/mL (155.5 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+90% Corn Oil: 3.3 mg/mL (6.41 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	1.9438 mL	9.7189 mL	19.4379 mL
5 mM	0.3888 mL	1.9438 mL	3.8876 mL
10 mM	0.1944 mL	0.9719 mL	1.9438 mL
50 mM	0.0389 mL	0.1944 mL	0.3888 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

Wan ZK, et al. Synthesis of potent and orally efficacious 11 $\beta$ -hydroxysteroid dehydrogenase type 1 inhibitor HSD-016. J Org Chem. 2011 Sep 2;76(17):7048-55.

**Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins**

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