

BI-3231

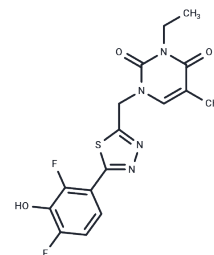
## Chemical Properties

CAS No. : 2894848-07-6

Formula: C<sub>16</sub>H<sub>14</sub>F<sub>2</sub>N<sub>4</sub>O<sub>3</sub>S

Molecular Weight: 380.37

Storage: Store at low temperature, Keep away from direct sunlight  
 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	BI-3231 is a selective and potent inhibitor of hydroxysteroid 17β-dehydrogenase 13 HSD17B13, inhibiting hHSD17B13 and mHSD17B13. BI-3231 can be used for the study of alcohol-associated liver injury, fibrosis and cirrhosis.
Targets(IC50)	Dehydrogenase
In vitro	In vitro Pharmacology, BI-3231 demonstrates a good metabolic clearance rate.[1].
In vivo	Plasma and liver pharmacokinetics in mice after single oral administration of 50 μmol/kg 45 (BI-3231) showing extensive compound distribution and retention in the liver compared to plasmav[1].

## Solubility Information

Solubility	DMSO: 100 mg/mL (262.9 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: 4 mg/mL (10.52 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

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	<b>1mg</b>	<b>5mg</b>	<b>10mg</b>
1 mM	2.629 mL	13.1451 mL	26.2902 mL
5 mM	0.5258 mL	2.629 mL	5.258 mL
10 mM	0.2629 mL	1.3145 mL	2.629 mL
50 mM	0.0526 mL	0.2629 mL	0.5258 mL

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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

Thamm S, et al. Discovery of a Novel Potent and Selective HSD17B13 Inhibitor, BI-3231, a Well-Characterized Chemical Probe Available for Open Science. J Med Chem. 2023 Feb 2.

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