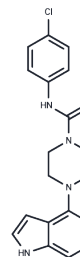


## GOT1 inhibitor-1

## Chemical Properties

CAS No. :	732973-87-4
Formula:	C <sub>19</sub> H <sub>19</sub> ClN <sub>4</sub> O
Molecular Weight:	354.83
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	GOT1 inhibitor-1 (GOT1 inhibitor 2c) is a novel, potent and non-covalent inhibitor of glutamate oxaloacetate transaminase 1 (GOT1) with an IC <sub>50</sub> of 8.2 μM.
Targets(IC <sub>50</sub> )	Others,ROS
In vitro	In the MDH coupled GOT1 enzymatic assay, GOT1 inhibitor-1 shows an inhibitory effect on GOT1 activity with an IC <sub>50</sub> of 8.2 μM[1].

## Solubility Information

Solubility	DMSO: 250 mg/mL (704.56 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 (11.27 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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	1mg	5mg	10mg
1 mM	2.8183 mL	14.0913 mL	28.1825 mL
5 mM	0.5637 mL	2.8183 mL	5.6365 mL
10 mM	0.2818 mL	1.4091 mL	2.8183 mL
50 mM	0.0564 mL	0.2818 mL	0.5637 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

Anglin J , Zavareh R B , Sander P N , et al. Discovery and optimization of aspartate aminotransferase 1 inhibitors to target redox balance in pancreatic ductal adenocarcinoma[J]. Bioorganic & Medicinal Chemistry Letters, 2018: S0960894X18303743.

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