

## DAO-IN-1

## Chemical Properties

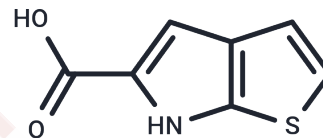
CAS No. : 51856-25-8

Formula: C<sub>7</sub>H<sub>5</sub>NO<sub>2</sub>S

Molecular Weight: 167.19

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	DAO-IN-1 (compound 10) is a potent DAO (D -amino acid oxidase) inhibitor with an IC <sub>50</sub> =269 ± 77nM for human DAO that ameliorates schizophrenia by increasing D -serine levels in the brain.
Targets(IC <sub>50</sub> )	Others,Xanthine Oxidase
In vitro	DAO-IN-1 exhibited potent inhibitory activity in a CHO cell model overexpressing human DAO (IC <sub>50</sub> = 269 ± 77 nM)[1].

## Solubility Information

Solubility	DMSO: 80 mg/mL (478.5 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: 3.3 mg/mL (19.74 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	5.9812 mL	29.9061 mL	59.8122 mL
5 mM	1.1962 mL	5.9812 mL	11.9624 mL
10 mM	0.5981 mL	2.9906 mL	5.9812 mL
50 mM	0.1196 mL	0.5981 mL	1.1962 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

Sparey T, et al. The discovery of fused pyrrole carboxylic acids as novel, potent D-amino acid oxidase (DAO) inhibitors. *Bioorg Med Chem Lett.* 2008 Jun 1;18(11):3386-91.

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