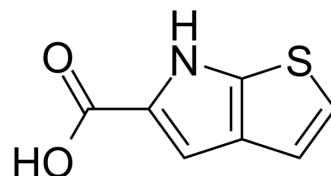


DAO-IN-1

Cat. No.:	HY-W037417		
CAS No.:	51856-25-8		
Molecular Formula:	C ₇ H ₅ NO ₂ S		
Molecular Weight:	167.19		
Target:	Others		
Pathway:	Others		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro	DMSO : 100 mg/mL (598.12 mM; Need ultrasonic)				
		Solvent Concentration	Mass 1 mg	5 mg	10 mg
	Preparing Stock Solutions	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	
Please refer to the solubility information to select the appropriate solvent.					
In Vivo	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.5 mg/mL (14.95 mM); Clear solution				

BIOLOGICAL ACTIVITY

Description	DAO-IN-1 is a potent inhibitor of D-amino acid oxidase (DAO) with an IC ₅₀ value of 269 nM. DAO is an enzyme responsible for D-serine metabolism, D-serine is a co-agonist of NMDA receptors ^[1] .
IC₅₀ & Target	D-amino acid oxidase (DAO) ^[1]

REFERENCES

[1]. 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.

Caution: Product has not been fully validated for medical applications. For research use only.

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