

AS057278

## Chemical Properties

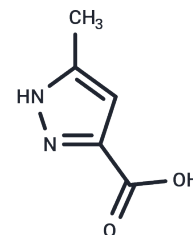
CAS No. : 402-61-9

Formula: C<sub>5</sub>H<sub>6</sub>N<sub>2</sub>O<sub>2</sub>

Molecular Weight: 126.11

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	AS057278 (3-Methylpyrazole-5-carboxylic acid) is an D-amino acid oxidase (DAAO) inhibitor.
Targets(IC50)	Others
In vivo	AS057278 was able to normalize phencyclidine (PCP)-induced prepulse inhibition after acute (80 mg/kg) and chronic (20 mg/kg b.i.d.) oral administration in mice. AS057278 after oral chronic treatment (10 mg/kg b.i.d.) was able to normalize PCP-induced hyperlocomotion. AS057278 has the potential to anti-psychotic action toward both cognitive and positive symptoms of schizophrenia[1].

## Solubility Information

Solubility	DMSO: 25 mg/mL (198.24 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: 2 mg/mL (15.86 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	7.9296 mL	39.6479 mL	79.2959 mL
5 mM	1.5859 mL	7.9296 mL	15.8592 mL
10 mM	0.793 mL	3.9648 mL	7.9296 mL
50 mM	0.1586 mL	0.793 mL	1.5859 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

Adage T , Anne-Cécile Trillat, Quattropani A , et al. In vitro and in vivo pharmacological profile of AS057278, a selective d-amino acid oxidase inhibitor with potential anti-psychotic properties[J]. European Neuropsychopharmacology the Journal of the European College of Neuropsychopharmacology, 2008, 18(3):200-214.

Haruta N , Iizuka H , Ishii K , et al. Alteration in the plasma concentration of a DAAO inhibitor, 3-methylpyrazole-5-carboxylic acid, in the ketamine-treated rats and the influence on the pharmacokinetics of plasma D-tryptophan[J]. Proceedings of the Japan Academy, Series B, 2011, 87(10):641-648.

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