D-Asparagine

Cat. No.: HY-W010378

CAS No.: 2058-58-4

Molecular Formula: $C_4H_8N_2O_3$

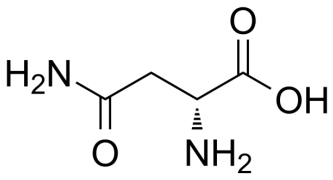
Molecular Weight: 132

Target: Endogenous Metabolite

Pathway: Metabolic Enzyme/Protease

Storage:

Powder	-20°C	3 years
	4°C	2 years
In solvent	-80°C	6 months
	-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro

H_2O : 33.33 mg/mL (252.50 mM; Need ultrasonic)

DMSO : < 1 mg/mL (ultrasonic;warming;heat to 60°C) (insoluble or slightly soluble)

Preparing Stock Solutions

Solvent / Mass / Concentration	1 mg	5 mg	10 mg
1 mM	7.5758 mL	37.8788 mL	75.7576 mL
5 mM	1.5152 mL	7.5758 mL	15.1515 mL
10 mM	0.7576 mL	3.7879 mL	7.5758 mL

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description

D-Asparagine (H-D-Asn-OH) is a competitive inhibitor of L-Asparagine hydrolysis with a K_i value of 0.24 mM. D-Asparagine is a source of nitrogen for yeast strains. D-Asparagine is a good substrate for the external yeast asparaginase but is a poor substrate for the internal enzyme[1].

REFERENCES

[1]. P C Dunlop, et al. Utilization of D-asparagine by Saccharomyces Cerevisiae. J Bacteriol. 1976 Mar;125(3):999-1004.

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

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