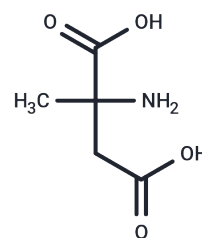


α -Methyl-DL-aspartic acid

Chemical Properties

CAS No. :	2792-66-7
Formula:	C ₅ H ₉ NO ₄
Molecular Weight:	147.13
Storage:	Keep away from moisture Powder: -20°C for 3 years In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small>



Biological Description

Description	α -Methyl-DL-aspartic acid specifically inhibits argininosuccinate synthase (ASS), the rate-limiting enzyme in 1-citrulline-to-1-arginine recycling.
Targets(IC50)	Serine Protease,Serine/threonin kinase
In vitro	α -Methyl-dl-aspartic acid markedly diminishes the antihypertensive effects of Bj-BPP-10c in spontaneously hypertensive rats (SHR) [2].
In vivo	α -Methyl-DL-aspartic acid (147 mg/kg, intravenous injection) was used to treat L-citrulline-induced retinal vasodilation in Wistar rats and was found to reduce retinal vasodilation in rats. [1]

Solubility Information

Solubility	H ₂ O: 35.7 mg/mL (242.64 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	6.7967 mL	33.9836 mL	67.9671 mL
5 mM	1.3593 mL	6.7967 mL	13.5934 mL
10 mM	0.6797 mL	3.3984 mL	6.7967 mL
50 mM	0.1359 mL	0.6797 mL	1.3593 mL

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

Asami Mori, et al. l-Citrulline dilates rat retinal arterioles via nitric oxide- and prostaglandin-dependent pathways in vivo. J Pharmacol Sci. 2015 Apr;127(4):419-23.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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