α-Methyl-DL-aspartic acid

MedChemExpress

Cat. No.:	HY-W14211	9	
CAS No.:	2792-66-7		
Molecular Formula:	C ₅ H ₉ NO ₄		
Molecular Weight:	147.13		
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

		Solvent Mass Concentration	1 mg	5 mg	10 mg
Preparing Stock Solutions	Preparing Stock Solutions	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

BIOLOGICAL ACTIVITY				
Description	α -Methyl-DL-aspartic acid is a specific inhibitor of argininosuccinate synthase (ASS), and also is the rate-limiting enzyme for the recycling of 1-citrulline to 1-arginine ^[1] .			
In Vitro	α-methyl-dl-aspartic acid can significantly reduce the anti-hypertensive activity of Bj-BPP-10c in SHR ^[2] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.			
In Vivo	α-methyl-dl-aspartic acid (147 mg/kg, i.v.) can diminish the l-citrulline-induced retinal vasodilation in Wistar rats ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.			
	Animal Model:	Wistar rats		
	Dosage:	147 mg/kg		
	Administration:	147 mg/kg, i.v.		

Product Data Sheet

O

H₂N

HC

OH

[] 0 Result:

REFERENCES

[1]. 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.

[2]. Juliano R Guerreiro, et al. Argininosuccinate synthetase is a functional target for a snake venom anti-hypertensive peptide: role in arginine and nitric oxide production. J Biol Chem. 2009 Jul 24;284(30):20022-33.

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

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