

Agmatine

Chemical Properties

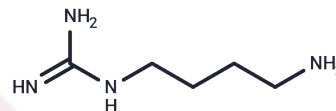
CAS No. : 306-60-5

Formula: C₅H₁₄N₄

Molecular Weight: 130.19

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	Agmatine is decarboxylated arginine.
Targets(IC50)	Others

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	7.6811 mL	38.4054 mL	76.8108 mL
5 mM	1.5362 mL	7.6811 mL	15.3622 mL
10 mM	0.7681 mL	3.8405 mL	7.6811 mL
50 mM	0.1536 mL	0.7681 mL	1.5362 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

Akasaka N, Kato S, Kato S, Hidese R, Wagu Y, Sakoda H, Fujiwara S. Agmatine Production by *Aspergillus oryzae* is Elevated by Low pH During Solid-State Cultivation. *Appl Environ Microbiol.* 2018 May 25. pii: AEM.00722-18. doi: 10.1128/AEM.00722-18. [Epub ahead of print] PubMed PMID: 29802188.

Tavares MK, Dos Reis S, Platt N, Heinrich IA, Wolin IAV, Leal RB, Kaster MP, Rodrigues ALS, Freitas AE. Agmatine potentiates neuroprotective effects of subthreshold concentrations of ketamine via mTOR/S6 kinase signaling pathway. *Neurochem Int.* 2018 May 12. pii: S0197-0186(18)30006-8. doi: 10.1016/j.neuint.2018.05.006. [Epub ahead of print] PubMed PMID: 29763645.

Li J, Zhang K, Meng Y, Hu J, Ding M, Bian J, Yan M, Han J, Zhou M. Jasmonic acid/Ethylene signaling coordinates hydroxycinnamic acid amides biosynthesis through ORA59 transcription factor. *Plant J.* 2018 May 11. doi: 10.1111/tbj.13960. [Epub ahead of print] PubMed PMID: 29752755.

Singh N, Ecker GF. Insights into the Structure, Function, and Ligand Discovery of the Large Neutral Amino Acid Transporter 1, LAT1. *Int J Mol Sci.* 2018 Apr 24;19(5). pii: E1278. doi: 10.3390/ijms19051278. Review. PubMed PMID: 29695141.

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