

(L)-Canavanine

Chemical Properties

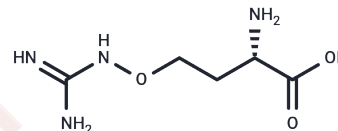
CAS No. : 543-38-4

Formula: C₅H₁₂N₄O₃

Molecular Weight: 176.17

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	(L)-Canavanine is antimutagenic activity.
Targets(IC50)	Others,Amino Acids and Derivatives

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	5.6763 mL	28.3817 mL	56.7634 mL
5 mM	1.1353 mL	5.6763 mL	11.3527 mL
10 mM	0.5676 mL	2.8382 mL	5.6763 mL
50 mM	0.1135 mL	0.5676 mL	1.1353 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

Ntuli SSBN, Gelderblom WCA, Katerere DR. The mutagenic and antimutagenic activity of *Sutherlandia frutescens* extracts and marker compounds. *BMC Complement Altern Med*. 2018 Mar 15;18(1):93. doi: 10.1186/s12906-018-2159-z. PubMed PMID: 29544492; PubMed Central PMCID: PMC5856389.

Krasuska U, Andrzejczak O, Staszek P, Bogatek R, Gniazdowska A. Canavanine Alters ROS/RNS Level and Leads to Post-translational Modification of Proteins in Roots of Tomato Seedlings. *Front Plant Sci*. 2016 Jun 14;7:840. doi: 10.3389/fpls.2016.00840. eCollection 2016. PubMed PMID: 27379131; PubMed Central PMCID: PMC4905978.

Nurcahyanti AD, Wink M. L-Canavanine potentiates the cytotoxicity of doxorubicin and cisplatin in arginine deprived human cancer cells. *PeerJ*. 2016 Jan 7;4:e1542. doi: 10.7717/peerj.1542. eCollection 2016. PubMed PMID: 26839743; PubMed Central PMCID: PMC4734457.

Nurcahyanti AD, Wink M. Cytotoxic potentiation of vinblastine and paclitaxel by L-canavanine in human cervical cancer and hepatocellular carcinoma cells. *Phytomedicine*. 2015 Dec 15;22(14):1232-7. doi: 10.1016/j.phymed.2015.10.007. Epub 2015 Oct 30. PubMed PMID: 26655405.

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