

DL-m-Tyrosine

Chemical Properties

CAS No. :	775-06-4
Formula:	C ₉ H ₁₁ NO ₃
Molecular Weight:	181.19
Storage:	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	DL-m-Tyrosine is a non-proteinogenic amino acid. It inhibits microbial proliferation and spore formation, and significantly suppresses root development of lettuce, Arabidopsis thaliana and other plants. Combined with carbidopa, it exerts significant antihypertensive pharmacological activity and can be used as a research tool in the development and mechanism exploration of biopesticides.
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Solubility Information

Solubility	H ₂ O: 1.14 mg/mL (6.29 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	5.5191 mL	27.5953 mL	55.1907 mL
5 mM	1.1038 mL	5.5191 mL	11.0381 mL
10 mM	0.5519 mL	2.7595 mL	5.5191 mL
50 mM	0.1104 mL	0.5519 mL	1.1038 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

- Aronson JN, Wermus GR. Effects of m-Tyrosine on Growth and Sporulation of Bacillus Species. J Bacteriol. 1965 Jul; 90(1):38-46.
- Bertin C, et al. Grass roots chemistry: meta-tyrosine, an herbicidal nonprotein amino acid. Proc Natl Acad Sci U S A. 2007 Oct 23;104(43):16964-9.
- Schuster B, et al. The mechanism of action of phenylalanine ammonia-lyase: the role of prosthetic dehydroalanine. Proc Natl Acad Sci U S A. 1995 Aug 29;92(18):8433-7.

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