

Ricinine

Chemical Properties

CAS No. : 524-40-3

Formula: C₈H₈N₂O₂

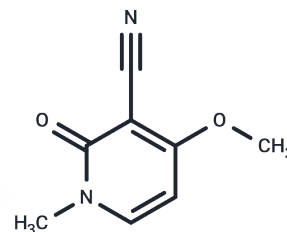
Molecular Weight: 164.16

Keep away from direct sunlight, Keep away from moisture

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	Ricinine (1,2-Dihydro-4-methoxy-1-methyl-2-oxonicotinonitrile) is a major alkaloid in Ricinus communis plant with hepatoprotection in CCl ₄ -induced liver damage.
Targets(IC50)	Others, Casein Kinase, Wnt/beta-catenin

Solubility Information

Solubility	DMSO: 4.8 mg/mL (29.24 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	6.0916 mL	30.4581 mL	60.9162 mL
5 mM	1.2183 mL	6.0916 mL	12.1832 mL
10 mM	0.6092 mL	3.0458 mL	6.0916 mL
50 mM	0.1218 mL	0.6092 mL	1.2183 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

- El-Naggar MH, et al. Antimicrobial and anti-quorum-sensing activity of Ricinus communis extracts and ricinine derivatives. Nat Prod Res. 2018 Jan 15:1-7.
- Marwat SK, et al. Review - Ricinus communis - Ethnomedicinal uses and pharmacological activities. Pak J Pharm Sci. 2017 Sep;30(5):1815-1827.
- Oriakhi K, et al. Isolation, characterization, and hepatoprotective properties of betulinic acid and ricinine from Tetracarpidium conophorum seeds (Euphorbiaceae). J Food Biochem. 2021;45(3):e13288.
- Xu W, et al. Optimization of Ultrasonic-Microwave Synergistic Extraction of Ricinine from Castor Cake by Response Surface Methodology. Curr Pharm Biotechnol. 2016;17(13):1126-1133.

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