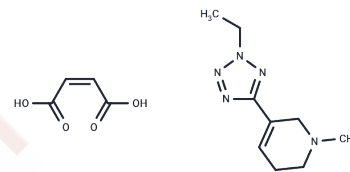


Alvamine maleate

Chemical Properties

CAS No. :	219581-36-9
Formula:	C ₁₃ H ₁₉ N ₅ O ₄
Molecular Weight:	309.32
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	Alvamine maleate is used as a Partial M1 Agonist and M2/M3 Antagonist.
Targets(IC50)	Others,AChR

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.2329 mL	16.1645 mL	32.329 mL
5 mM	0.6466 mL	3.2329 mL	6.4658 mL
10 mM	0.3233 mL	1.6164 mL	3.2329 mL
50 mM	0.0647 mL	0.3233 mL	0.6466 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

Tapia E, Sánchez-Lozada LG, García-Niño WR, García E, Cerecedo A, García-Arroyo FE, Osorio H, Arellano A, Cristóbal-García M, Loredó ML, Molina-Jijón E, Hernández-Damián J, Negrette-Guzmán M, Zazueta C, Huerta-Yepez S, Reyes JL, Madero M, Pedraza-Chaverrí J. Curcumin prevents maleate-induced nephrotoxicity: relation to hemodynamic alterations, oxidative stress, mitochondrial oxygen consumption and activity of respiratory complex I. *Free Radic Res.* 2014 Nov;48(11):1342-54. doi: 10.3109/10715762.2014.954109. Epub 2014 Sep 9. PubMed PMID: 25119790.

Liu K, Xu Y, Zhou NY. Identification of a Specific Maleate Hydratase in the Direct Hydrolysis Route of the Gentisate Pathway. *Appl Environ Microbiol.* 2015 Sep 1;81(17):5753-60. doi: 10.1128/AEM.00975-15. Epub 2015 Jun 12. PubMed PMID: 26070679; PubMed Central PMCID: PMC4551245.

Erythropel HC, Brown T, Maric M, Nicell JA, Cooper DG, Leask RL. Designing greener plasticizers: Effects of alkyl chain length and branching on the biodegradation of maleate based plasticizers. *Chemosphere.* 2015 Sep;134:106-12. doi: 10.1016/j.chemosphere.2015.04.014. Epub 2015 Apr 27. PubMed PMID: 25917507.

Tsai CF, Wu GY, Kuo CH, Lin YW, Chang CH, Tseng SH, Kao YM, Chiueh LC, Lu TJ, Shih DY. Effective extraction method through alkaline hydrolysis for the detection of starch maleate in foods. *J Food Drug Anal.* 2015 Sep;23(3):442-446. doi: 10.1016/j.jfda.2014.09.002. Epub 2015 Jan 2. PubMed PMID: 28911701.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481