

Amantadine sulfate

Chemical Properties

CAS No. : 31377-23-8
 Formula: C₂₀H₃₆N₂O₄S
 Molecular Weight: 400.58
 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	Amantadine is used both as an antiviral and an anti-parkinsonian drug. Amantadine is a weak antagonist of the NMDA-type glutamate receptor, increases dopamine release, and blocks dopamine reuptake. The drug has many effects in the brain, including the release of dopamine and norepinephrine from nerve endings.
Targets(IC50)	Apoptosis,Bcl-2 Family,Others,CDK,Influenza Virus,SARS-CoV,Virus Protease

Solubility Information

Solubility	DMSO: Soluble, (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.4964 mL	12.4819 mL	24.9638 mL
5 mM	0.4993 mL	2.4964 mL	4.9928 mL
10 mM	0.2496 mL	1.2482 mL	2.4964 mL
50 mM	0.0499 mL	0.2496 mL	0.4993 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

Pahwa R, Tanner CM, Hauser RA, Isaacson SH, Nausieda PA, Truong DD, Agarwal P, Hull KL, Lyons KE, Johnson R, Stempien MJ. ADS-5102 (Amantadine) Extended-Release Capsules for Levodopa-Induced Dyskinesia in Parkinson Disease (EASE LID Study): A Randomized Clinical Trial. *JAMA Neurol.* 2017 Aug 1;74(8):941-949. doi: 10.1001/jamaneurol.2017.0943. PubMed PMID: 28604926.

Czepielewski LS, Sodr  L, Souza AC, B cker J, Burke KP, Ceres r KM, Gama CS. Changes in verbal learning of patients with schizophrenia: Results from a randomized, double-blind, placebo-controlled trial of amantadine adjunctive to antipsychotics. *Schizophr Res.* 2015 Oct;168(1-2):571-2. doi: 10.1016/j.schres.2015.06.001. Epub 2015 Jun 21. PubMed PMID: 26104472.

Hammond FM, Sherer M, Malec JF, Zafonte RD, Whitney M, Bell K, Dikmen S, Bogner J, Mysiw J, Pershad R; Amantadine Irritability Multisite Study Group. Amantadine Effect on Perceptions of Irritability after Traumatic Brain Injury: Results of the Amantadine Irritability Multisite Study. *J Neurotrauma.* 2015 Aug 15;32(16):1230-8. doi: 10.1089/neu.2014.3803. Epub 2015 Mar 31. PubMed PMID: 25774566; PubMed Central PMCID: PMC4523042.

Pahwa R, Tanner CM, Hauser RA, Sethi K, Isaacson S, Truong D, Struck L, Ruby AE, McClure NL, Went GT, Stempien MJ. Amantadine extended release for levodopa-induced dyskinesia in Parkinson's disease (EASED Study). *Mov Disord.* 2015 May;30(6):788-95. doi: 10.1002/mds.26159. Epub 2015 Feb 4. PubMed PMID: 25650051; PubMed Central PMCID: PMC5024015.

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