

Trientine-2HCl

Chemical Properties

CAS No. : 38260-01-4
 Formula: C₆H₂₀Cl₂N₄
 Molecular Weight: 219.15
 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	Trientine-2HCl (Trien), a chelating agent, is used to treat Wilson's disease by binding up and removing copper in the body. Trientine can also be used as a chelating agent for copper in hepatolenticular degeneration, as a stabilizer for epoxy resins, and as ampholyte for isoelectric focusing.
Targets(IC50)	Apoptosis,Others

Solubility Information

Solubility	DMSO: 27.78 mg/mL (126.76 mM),Sonication is recommended. H ₂ O: 100 mg/mL (456.31 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+90% Saline: 2.78 mg/mL (12.69 mM),Solution. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	4.5631 mL	22.8154 mL	45.6308 mL
5 mM	0.9126 mL	4.5631 mL	9.1262 mL
10 mM	0.4563 mL	2.2815 mL	4.5631 mL
50 mM	0.0913 mL	0.4563 mL	0.9126 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

- Ala A, Aliu E, Schilsky ML. Prospective Pilot Study of a Single Daily Dosage of Trientine for the Treatment of Wilson Disease. *Dig Dis Sci*. 2015 Jan 21. [Epub ahead of print] PubMed PMID: 25605552.
- Chandok N, Roberts EA. The trientine crisis in Canada: a call to advocacy. *Can J Gastroenterol Hepatol*. 2014 Apr;28(4):184. PubMed PMID: 24729990; PubMed Central PMCID: PMC4071922.
- Fu S, Hou MM, Wheler J, Hong D, Naing A, Tsimberidou A, Janku F, Zinner R, Piha-Paul S, Falchook G, Kuo MT, Kurzrock R. Exploratory study of carboplatin plus the copper-lowering agent trientine in patients with advanced malignancies. *Invest New Drugs*. 2014 Jun;32(3):465-72. doi: 10.1007/s10637-013-0051-8. Epub 2013 Dec 5. PubMed PMID: 24306314.
- Rezaei A, Heidarian E. Co-administration of trientine and flaxseed oil on oxidative stress, serum lipids and heart structure in diabetic rats. *Indian J Exp Biol*. 2013 Aug;51(8):646-52. PubMed PMID: 24228388.

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