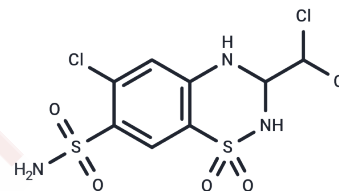


Trichlormethiazide

Chemical Properties

CAS No. : 133-67-5
 Formula: C₈H₈Cl₃N₃O₄S₂
 Molecular Weight: 380.66
 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	Trichlormethiazide (Naqua) is a short-acting, 3-dichloromethyl derivative of hydrochlorothiazide, belonging to the class of thiazide diuretics. Trichlormethiazide appears to block the active reabsorption of chloride and possibly sodium in the ascending loop of Henle, altering electrolyte transfer in the proximal tubule.
Targets(IC50)	ATPase,Others,Carbonic Anhydrase

Solubility Information

Solubility	DMSO: 50 mg/mL (131.35 mM),Sonication is recommended. Ethanol: < 1 mg/mL (insoluble or slightly soluble), H ₂ O: < 1 mg/mL (insoluble or slightly soluble), (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 2 mg/mL (5.25 mM),Sonication is recommended. <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	2.627 mL	13.1351 mL	26.2702 mL
5 mM	0.5254 mL	2.627 mL	5.254 mL
10 mM	0.2627 mL	1.3135 mL	2.627 mL
50 mM	0.0525 mL	0.2627 mL	0.5254 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

Temperini C, et al. Bioorg Med Chem. 2009 Feb 1;17(3):1214-21.

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