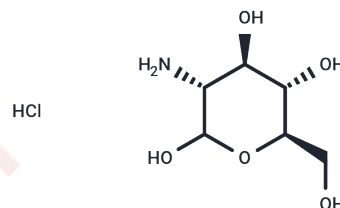


Glucosamine hydrochloride

Chemical Properties

CAS No. :	66-84-2
Formula:	C ₆ H ₁₃ NO ₅ ·HCl
Molecular Weight:	215.63
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year <i>Actual storage temperature shall be subject to the COA.</i>



Biological Description

Description	Glucosamine hydrochloride (Chitosamine hydrochloride) is commonly used as a treatment for osteoarthritis, although its acceptance as a medical therapy varies.
Targets(IC50)	Reactive Oxygen Species, HIF/HIF Prolyl-Hydroxylase, Endogenous Metabolite, Autophagy, ROS

Solubility Information

Solubility	H ₂ O: 250 mg/mL (1159.39 mM), Sonication is recommended. DMSO: 55 mg/mL (255.07 mM), Sonication is recommended. (< 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 (9.28 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	4.6376 mL	23.1879 mL	46.3757 mL
5 mM	0.9275 mL	4.6376 mL	9.2751 mL
10 mM	0.4638 mL	2.3188 mL	4.6376 mL
50 mM	0.0928 mL	0.4638 mL	0.9275 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

Jamialahmadi K, et al. Environ Toxicol Pharmacol. 2014 Jul;38(1):212-9.

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