

Trigonelline chloride

Chemical Properties

CAS No. :	6138-41-6
Formula:	C ₇ H ₈ ClNO ₂
Molecular Weight:	173.597
Storage:	Keep away from direct sunlight 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	Trigonelline chloride (Coffearine Hydrochloride), an alkaloid with potential antidiabetic activity, is present in considerable amounts in coffee.
Targets(IC50)	Apoptosis, Ferroptosis, HIV Protease, Endogenous Metabolite, Antibacterial, Antifungal, HSV

Solubility Information

Solubility	DMSO: 11.74 mg/mL (67.63 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: 1.00 mg/mL (5.76 mM), Sonication is recommended. 10% DMSO+90% Saline: 1.17 mg/mL (6.74 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	5.7604 mL	28.8018 mL	57.6037 mL
5 mM	1.1521 mL	5.7604 mL	11.5207 mL
10 mM	0.576 mL	2.8802 mL	5.7604 mL
50 mM	0.1152 mL	0.576 mL	1.1521 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

Zhang DF, et al. Asian Pac J Trop Med. 2015 Aug;8(8):651-4.

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