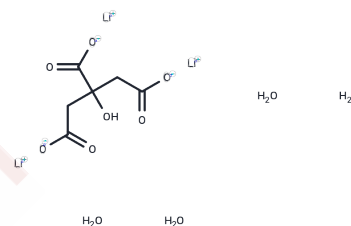


Citric acid trilithium salt tetrahydrate

Chemical Properties

CAS No. :	6080-58-6
Formula:	C ₆ H ₁₃ Li ₃ O ₁₁
Molecular Weight:	281.98
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	Citric acid trilithium salt tetrahydrate (Lithium citrate tribasic tetrahydrate), the active component of Lithium, is a medicine used in the therapy of psychiatric disease. It has shown the effects of signaling pathways and metabolic in the brain based on the particular disease and clinical condition model. According to the reports, Citric acid trilithium salt tetrahydrate was used as a mood stabilizer when treating bipolar mood disorders (BD) and lower the risk of self-harm in BD patient. In addition, Citric acid trilithium salt tetrahydrate has been the choice drug in the therapy of acute manic episodes. Citric acid trilithium salt tetrahydrate also could dissolve uric acid crystals in urine achieved from patients with gout. Besides, Citric acid trilithium salt tetrahydrate have some dose-dependent side-effects. The the main side-effects of Lithium Citrate is the tendency to inhibit the prostatic acid phosphatase enzyme (PAP), which result in the accumulation of PAP.
Targets(IC50)	Apoptosis, ATP Citrate Lyase, HIF/HIF Prolyl-Hydroxylase, Endogenous Metabolite, Antibacterial, GluR, Dehydrogenase, GSK-3

Solubility Information

Solubility	DMSO: 2.82 mg/mL (10 mM), Sonication is recommended. Ethanol: < 1 mg/mL (insoluble or slightly soluble), H ₂ O: 51 mg/mL (180.86 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.5464 mL	17.7318 mL	35.4635 mL
5 mM	0.7093 mL	3.5464 mL	7.0927 mL
10 mM	0.3546 mL	1.7732 mL	3.5464 mL
50 mM	0.0709 mL	0.3546 mL	0.7093 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

Oruch R, et al. Eur J Pharmacol. 2014 Jun 30. pii: S0014-2999(14)00493-2

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