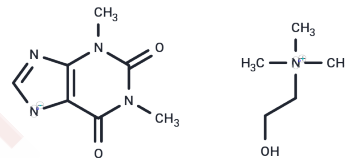


Choline theophyllinate

Chemical Properties

CAS No. :	4499-40-5
Formula:	C ₁₂ H ₂₁ N ₅ O ₃
Molecular Weight:	283.33
Storage:	Store at low temperature Powder: -20°C for 3 years In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small>



Biological Description

Description	Choline theophyllinate (Oxtriphylline) is the choline salt of theophylline, a small molecule PDE inhibitor that can be used to treat immune system disorders and respiratory disorders, and to study asthma disorders.
Targets(IC50)	Endogenous Metabolite,PDE

Solubility Information

Solubility	H ₂ O: 225 mg/mL (794.13 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	3.5295 mL	17.6473 mL	35.2945 mL
5 mM	0.7059 mL	3.5295 mL	7.0589 mL
10 mM	0.3529 mL	1.7647 mL	3.5295 mL
50 mM	0.0706 mL	0.3529 mL	0.7059 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

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- Rhind GB, et al. Sustained release choline theophyllinate in nocturnal asthma. *Br Med J (Clin Res Ed).* 1985;291(6509):1605-1607.
- Prime FJ. A clinical trial of choline theophyllinate versus salbutamol with placebo control. *J Int Med Res.* 1979;7(5):428-433.
- Helms P, et al. A comparative trial of choline theophyllinate and controlled release aminophylline in chronic childhood asthma. *Eur J Pediatr.* 1983;141(2):89-91.
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