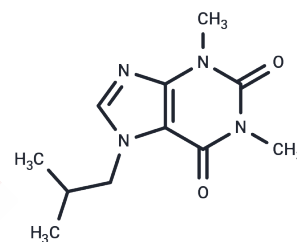


Isbufylline

Chemical Properties

CAS No. :	90162-60-0
Formula:	C ₁₁ H ₁₆ N ₄ O ₂
Molecular Weight:	236.27
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	Isbufylline can exert significant anti-inflammatory actions, in addition to its bronchodilator activity.
Targets(IC50)	Others,PDE
In vivo	At a dose (106 μmol/kg i.p.) providing complete protection against acetylcholine aerosol-induced dyspnea in the guinea pig, Isbufylline inhibited platelet-activating factor (PAF)- and antigen-induced eosinophil infiltration into bronchoalveolar lavage flu

Solubility Information

Solubility	DMSO: 55 mg/mL (232.78 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	4.2324 mL	21.1622 mL	42.3245 mL
5 mM	0.8465 mL	4.2324 mL	8.4649 mL
10 mM	0.4232 mL	2.1162 mL	4.2324 mL
50 mM	0.0846 mL	0.4232 mL	0.8465 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

Manzini S, et al. Isbufylline, a new xanthine derivative, inhibits airway hyperresponsiveness and airway inflammation in guinea pigs. *Eur J Pharmacol.* 1993 Nov 16;249(3):251-7.

Meini S, et al. Isbufylline, a xanthine derivative, inhibits bronchoconstrictor responses produced by stimulation of capsaicin-sensitive sensory nerves in guinea-pig: 'In vitro' and 'in vivo' evidence. *Pulm Pharmacol.* 1993 Dec;6(4):279-86.

Celardo A, et al. Simultaneous determination of isbufylline and its major metabolites in rabbit blood and urine by reversed-phase high-performance liquid chromatography. *J Chromatogr.* 1991 Aug 23;568(2):407-18.

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