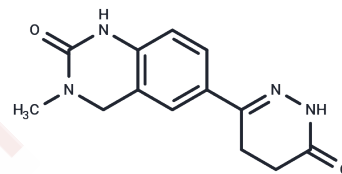


Prinoxodan

Chemical Properties

CAS No. :	111786-07-3
Formula:	C13H14N4O2
Molecular Weight:	258.28
Storage:	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	Prinoxodan is a potent phosphodiesterase 3 (PDE3) inhibitor. It exerts cardiotonic and vasodilatory effects by increasing intracellular cAMP levels, used for heart failure and cardiovascular research.
Targets(IC50)	PDE
In vitro	Prinoxodan dose-dependently (5 nmol-5 umol) increases myocardial contractility in isolated guinea pig hearts [1].
In vivo	Prinoxodan (30-300 ug/kg i.v. or 0.3 mg/kg p.o.) significantly enhances myocardial contractility and reduces peripheral resistance in dogs [2].

Solubility Information

Solubility	Ethanol: < 1 mg/mL (insoluble) (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.8718 mL	19.3588 mL	38.7177 mL
5 mM	0.7744 mL	3.8718 mL	7.7435 mL
10 mM	0.3872 mL	1.9359 mL	3.8718 mL
50 mM	0.0774 mL	0.3872 mL	0.7744 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

Artigou JY, et al. [Evaluation of a new cardiotoxic agent on human isolated atrium]. Ann Cardiol Angeiol (Paris). 1993 Feb;42(2):79-82.

a b c "Hoechst Stains". Invitrogen (Molecular Probes).

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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