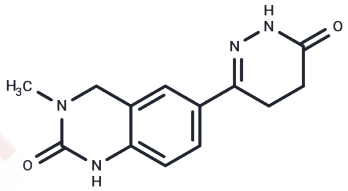
Data Sheet (Cat.No.T12720)

TargetMol

Prinoxodan

Chemical Properties



CAS No. : 111786-07-3

Formula: C13H14N4O2

Molecular Weight: 258.28

Appearance: no data available

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Biological Description

Description	Prinoxodan is an inhibitor of phosphodiesterase.
Targets(IC50)	Others
In vitro	Prinoxodan is an agent of orally effective positive inotropic/vasodilator. Prinoxodan is a new nonglycoside, noncatecholamine cardiotonic/vasodilator agent is examined in vitro in isolated guinea pig hearts; in the latter, Prinoxodan 5 nmol-5 μmol increases contractility in a dose-related fashion[2].
In vivo	Prinoxodan (i.v.) treat to anesthetized dogs increases contractile force while decreasing arterial pressure and total peripheral resistance (TPR) in a dose-related manner. Heart rate (HR) is only slightly increased, and aortic flow is not appreciably altered. A single oral dose of Prinoxodan 0.3 mg/kg administered to conscious chronically instrumented dogs produces a marked and sustained increase in contractility 15-240 min after treatment while only slightly increasing HR. The effects of Prinoxodan 30-300 μg/kg, i.v. are studied in a mecamylamine-propranolol-induced model of heart failure. Prinoxodan effectively reverses the drug-induced heart failure by increasing myocardial contractility and decreasing arterial pressure while only slightly affecting HR[2].

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.

Reference

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

Barrett JA, et al. Pharmacology of RG W-2938: a cardiotonic agent with vasodilator activity. J Cardiovasc Pharmacol. 1990 Oct;16(4):537-45.

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