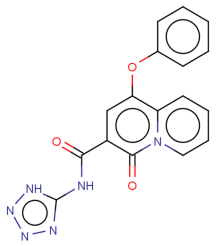
Data Sheet (Cat.No.T13855)

TargetMol

Quinotolast sodium

Chemical Properties



CAS No. : 101193-62-8

Formula: C17H12N6NaO3

Molecular Weight: 371.312

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	Quinotolast sodium inhibits histamine, LTC4 and PGD2 release in a concentration-dependent manner in the concentration range of 1-100 μg/mL.
Targets(IC50)	Others,Histamine Receptor,Leukotriene Receptor,Prostaglandin Receptor
In vitro	Quinotolast significantly inhibits PGD2 and LTC4 release. Quinotolast inhibits PGD2 release by 100% and LTC4 release by 54%. The inhibitory effect of Quinotolast on histamine release from dispersed lung cells is largely independent of the preincubation period, no tachyphylaxis being observed. Quinotolast shows a significant inhibition of inflammatory mediators from human dispersed lung cells[1].
In vivo	Quinotolast is given i.v. to rats, Quinotolast, dose-dependently inhibits PCA. The doses of Quinotolast required to inhibit the reaction by 50% (ED50) is 0.0063 mg/kg. Given p.o. [2].Quinotolast potently inhibits such type I allergic reactions as passive cutaneous anaphylaxis (PCA) and anaphylactic bronchoconstriction in rats by both intravenous and oral dosing.

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.6932 mL	13.4658 mL	26.9317 mL
5 mM	0.5386 mL	2.6932 mL	5.3863 mL
10 mM	0.2693 mL	1.3466 mL	2.6932 mL
50 mM	0.0539 mL	0.2693 mL	0.5386 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

Okayama Y, et al. Inhibition of histamine and eicosanoid release from dispersed human lung cells in vitro byquinotolast. Jpn J Pharmacol. 1995 Dec;69(4):375-80.
Kobayashi K, et al. Effects of quinotolast, a new orally active antiallergic drug, on experimental allergic models. Jpn J Pharmacol. 1993 Sep;63(1):73-81.

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