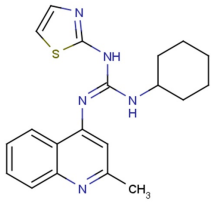
Data Sheet (Cat.No.T13160)

TargetMol
A DRUG SCREENING EXPERT

Timegadine

Chemical Properties



CAS No.:	71079-19-1
Formula:	C20H23N5S
Molecular Weight:	365.5
Appearance:	N/A
Storage:	0-4℃ for short term (days to weeks), or -20℃ for long term (months).

Biological Description

Description	Timegadine is a competitive inhibitor of COX and lipo-oxygenase, with IC50s ranging from 5 nM (washed rabbit platelets) to 20 μM (rat brain) for COX and 100 μM for lipo-oxygenase both in the cytosol fraction of horse platelet homogenates and in washed rabbit platelets.
Targets(IC_{50})	COX: 20 μM (in rat brain) lipo-oxygenase: 100 μM (in horse washed rabbit platelets)
In vitro	Timegadine is a potent, competitive COX and lipo-oxygenase inhibitor, with IC50s ranging from 5 nM (washed rabbit platelets) to 20 μM (rat brain) for COX and 100 μM for lipo-oxygenase both in the cytosol fraction of horse platelet homogenates, and in washed rabbit platelets[2],and is a new antiinflammatory agent,
In vivo	Daily oral doses of 10 to 30 mg/kg of Timegadine significantly inhibit both the primary and secondary lesions of adjuvant arthritis when the treatment is initiated on the day of the disease induction and continues for 28 days. Timegadine is able specifically to prevent the development of the swelling of the non-injected paw until 28 days after the adjuvant injection when administered for 5 days prior to and 5 days after the induction of the disease, in analogy with the effect of cyclophosphamide [1].

Solubility Information

Solubility	< 1 mg/ml refers to the product slightly soluble or insoluble

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.736 mL	13.68 mL	27.36 mL
5 mM	0.547 mL	2.736 mL	5.472 mL
10 mM	0.274 mL	1.368 mL	2.736 mL
50 mM	0.055 mL	0.274 mL	0.547 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 ℃ for 6 months; - 20 ℃ for 1 month. Please use it as soon as possible.

Reference

1. George S, et al. The influence of food intake on the bioavailability of timegadine, a novel non-steroidal anti-inflammatory drug. Br J Clin Pharmacol. 1983 Apr;15(4):495-8.

2. Ahnfelt-Rønne I, et al. A new antiinflammatory compound, timegadine (N-cyclohexyl-N"-4-[2-methylquinolyl]-N'-2-thiazolylguanidine), which inhibits both prostaglandin and 12-hydroxyeicosatetraenoic acid (12-HETE) formation. Biochem Pharmacol. 1980 Dec;29(24):3265-9.

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