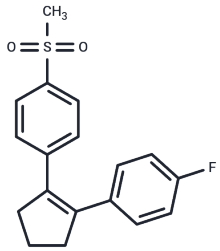
Data Sheet (Cat.No.T12860)

SC57666

Chemical Properties



CAS No. : 158959-32-1

Formula: C18H17FO2S

Molecular Weight: 316.39

Appearance: no data available

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

Biological Description

Description	SC57666 is a highly selective COX2 inhibitor (IC50 at 26 nM) that shows no activity against COX1.
Targets(IC50)	COX
In vitro	SC57666 exhibits potent inhibition of COX2 (IC50 of 3.2±0.8 nM) in CHO cells stably transfected with human COX isozymes, showing a selectivity of 1000-fold or greater over COX1 (IC50=6000±1900 nM) [1].
In vivo	In the adjuvant-induced arthritis model, SC57666 exhibits oral activity with an ED50 of 1.7 mpk. When administered orally at a dose of 600 mpk, SC57666 does not cause gastric lesions in mice after 5 hours. Similarly, no intestinal damage is observed in rats after 72 hours when administered orally at a dose of 200 mpk [2].

Solubility Information

Solubility	DMSO: 90 mg/mL (284.46 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.1607 mL	15.8033 mL	31.6066 mL
5 mM	0.6321 mL	3.1607 mL	6.3213 mL
10 mM	0.3161 mL	1.5803 mL	3.1607 mL
50 mM	0.0632 mL	0.3161 mL	0.6321 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

Riendeau D, et al. Biochemical and pharmacological profile of a tetrasubstituted furanone as a highly selective COX-2 inhibitor. Br J Pharmacol. 1997;121(1):105-117.

Reitz DB, Li JJ, Norton MB, et al. Selective cyclooxygenase inhibitors: novel 1,2-diarylcyclopentenes are potent and orally active COX-2 inhibitors. J Med Chem. 1994;37(23):3878-3881.

Tel:781-999-4286 E_mail:info@targetmol.com Address:36 Washington Street,Wellesley Hills,MA 02481