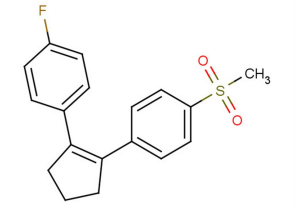
Data Sheet (Cat.No.T12860)

SC57666

Chemical Properties



CAS No.:	158959-32-1
Formula:	C18H17FO2S
Molecular Weight:	316.39
Appearance:	N/A
Storage:	0-4℃ for short term (days to weeks), or -20℃ for long term (months).

Biological Description

Description	SC57666 is a selective inhibitor of COX2(IC50 of 26 nM).
Targets(IC_{50})	COX-2: 26 nM
In vitro	SC57666 inhibits COX2(IC50 of 3.2±0.8 nM in CHO cells) stably transfected with human COX isozymes, with 1000 fold or more selectivity over COX1 (IC50=6000±1900 nM)[2].
In vivo	In the adjuvant-induced arthritis model,SC57666 has orally active with ED50 of 1.7 mpk. when SC57666 is administered intragastrically at 600 mpk,no gastric lesions are observed in mice after 5 h . No intestinal damage is observed in rats after 72 h when SC57666 is administered intragastrically at 200 mpk[1].

Solubility Information

Solubility	DMSO: 100 mg/mL (316.07 mM) (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.161 mL	15.803 mL	31.607 mL
5 mM	0.632 mL	3.161 mL	6.321 mL
10 mM	0.316 mL	1.58 mL	3.161 mL
50 mM	0.063 mL	0.316 mL	0.632 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. Reitz DB, et al. Selective cyclooxygenase inhibitors: novel 1,2-diarylcyclopentenes are potent and orally activeCOX2 inhibitors. J Med Chem. 1994 Nov 11;37(23):3878-81.

2. Riendeau D, et al. Biochemical and pharmacological profile of a tetrasubstituted furanone as a highly selective COX2 inhibitor. Br J Pharmacol. 1997 May;121(1):105-17.

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