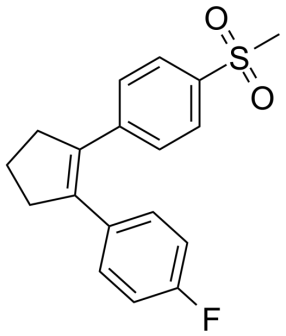
SC57666

Cat. No.:	HY-U00129
CAS No.:	158959-32-1
Molecular Formula:	$C_{18}H_{17}FO_2S$
Molecular Weight:	316.39
Target:	COX
Pathway:	Immunology/Inflammation
Storage:	Powder -20°C 3 years 4°C 2 years In solvent -80°C 6 months -20°C 1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : ≥ 100 mg/mL (316.07 mM)

* "≥" means soluble, but saturation unknown.

Preparing Stock Solutions

Solvent / Mass / Concentration	1 mg	5 mg	10 mg
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

Please refer to the solubility information to select the appropriate solvent.

In Vivo

1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
   Solubility: ≥ 2.5 mg/mL (7.90 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 2.5 mg/mL (7.90 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

SC57666 is a selective COX2 inhibitor with an IC_{50} of 26 nM.

IC_{50} & Target

COX-2
26 nM (IC_{50})

In Vitro

SC57666 inhibits COX2 with an IC_{50} of 3.2±0.8 nM in CHO cells stably transfected with human COX isozymes, with 1000 fold or more selectivity over COX1 (IC_{50}=6000±1900 nM)[2].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

In Vivo	SC57666 has been shown to be orally active (ED_{50}=1.7 mpk) in the adjuvant-induced arthritis model. No gastric lesions are observed in mice after 5 h when SC57666 is administered intragastrically at 600 mpk. No intestinal damage is observed in rats after 72 h when SC57666 is administered intragastrically at 200 mpk[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[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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