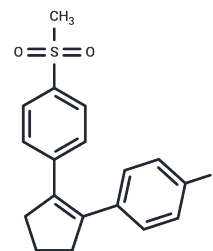


SC57666

## Chemical Properties

CAS No. : 158959-32-1  
 Formula: C<sub>18</sub>H<sub>17</sub>F<sub>0</sub>S<sub>2</sub>  
 Molecular Weight: 316.39  
 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	SC57666 is a highly selective COX2 inhibitor (IC <sub>50</sub> at 26 nM) that shows no activity against COX1.
Targets(IC <sub>50</sub> )	COX
In vitro	SC57666 exhibits potent inhibition of COX2 (IC <sub>50</sub> 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 (IC <sub>50</sub> =6000±1900 nM) [1].
In vivo	In the adjuvant-induced arthritis model, SC57666 exhibits oral activity with an ED <sub>50</sub> 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)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 3.3 mg/mL (10.43 mM), Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

### Preparing Stock Solutions

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	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

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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

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.

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