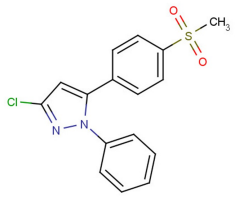
Data Sheet (Cat.No.T15345)

FR-188582

Chemical Properties



CAS No.:	189699-82-9
Formula:	C16H13ClN2O2S
Molecular Weight:	332.8
Appearance:	N/A
Storage:	0-4℃ for short term (days to weeks), or -20℃ for long term (months).

Biological Description

Description	FR-188582 is a highly selective cyclooxygenase (COX)-2 inhibitor (IC50: 17 nM).
Targets(IC_{50})	COX-2: 17 nM
In vitro	FR-188582 inhibits COX-2 (IC50: 17 nM), in a recombinant human COX enzyme activity. The inhibition of prostaglandin (PG) E2 formation by FR188582 is over 6000 times more selective for COX-2 than COX-1.
In vivo	FR-188582 (0.01-3.2 mg/kg, p.o.) reverses paw edema in adjuvant arthritic rats and displays a therapeutic effect in a dose-dependent manner. For adjuvant-injected paws and adjuvant-uninjected paws, the ED50s values (95% C.L.) are 0.074 (0.00021-0.53) and 0.063 (0.0039-0.31) mg/kg , respectively. The anti-inflammatory effect of FR-188582 is threefold more potent than that of Indomethacin. For adjuvant-injected paws and adjuvant-uninjected paws, the ED50s values (95% C.L.) are 0.24 (0.047-1.8) and 0.20 (0.021-0.79) mg/kg, respectively.

Solubility Information

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

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.005 mL	15.024 mL	30.048 mL
5 mM	0.601 mL	3.005 mL	6.01 mL
10 mM	0.3 mL	1.502 mL	3.005 mL
50 mM	0.06 mL	0.3 mL	0.601 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. Ochi T, et al. The anti-inflammatory effect of FR188582, a highly selective inhibitor of cyclooxygenase-2, with an ulcerogenic sparing effect in rats. Jpn J Pharmacol. 2001 Feb;85(2):175-82.

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