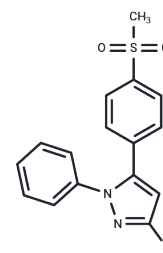


FR-188582

## Chemical Properties

CAS No. : 189699-82-9  
 Formula: C<sub>16</sub>H<sub>13</sub>ClN<sub>2</sub>O<sub>2</sub>S  
 Molecular Weight: 332.8  
 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	FR-188582 is a highly selective cyclooxygenase (COX)-2 inhibitor [IC <sub>50</sub> : 17 nM].
Targets(IC <sub>50</sub> )	COX
In vitro	FR-188582 inhibits COX-2 (IC <sub>50</sub> : 17 nM), in a recombinant human COX enzyme activity. The inhibition of prostaglandin (PG) E <sub>2</sub> 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 ED <sub>50</sub> s 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 ED <sub>50</sub> s values (95% C.L.) are 0.24 (0.047-1.8) and 0.20 (0.021-0.79) mg/kg, respectively.

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.0048 mL	15.024 mL	30.0481 mL
5 mM	0.601 mL	3.0048 mL	6.0096 mL
10 mM	0.3005 mL	1.5024 mL	3.0048 mL
50 mM	0.0601 mL	0.3005 mL	0.601 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.

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

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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