

FR-188582

Catalog No: tcsc7185



Available Sizes

Size: 1mg

Size: 5mg

Size: 10mg

Size: 20mg



Specifications

CAS No:

189699-82-9

Formula:

$C_{16}H_{13}ClN_2O_2S$

Pathway:

Immunology/Inflammation

Target:

COX

Purity / Grade:

>98%

Solubility:

10 mM in DMSO

Observed Molecular Weight:

332.8

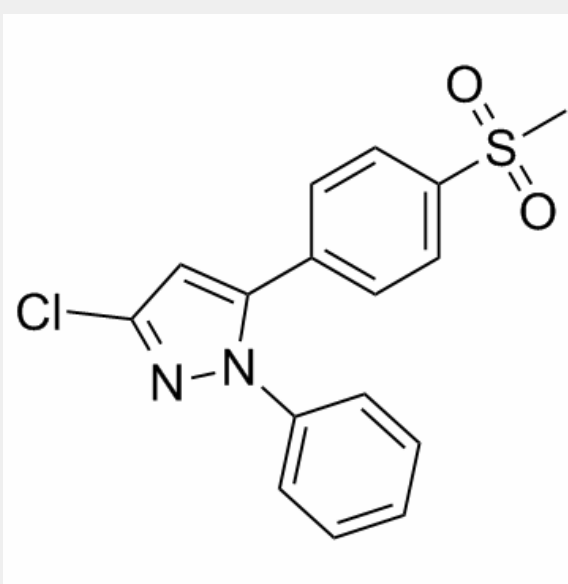
Product Description

FR-188582 is a highly selective inhibitor of **cyclooxygenase (COX)-2**, with an **IC₅₀** value of 17 nM.

IC50 & Target: IC50: 17 nM (COX-2)^[1]

In Vitro: In a recombinant human cyclooxygenase (COX) enzyme activity, FR-188582 (FR188582) inhibits COX-2 with an IC₅₀ value of 17 nM, and the inhibition of prostaglandin (PG) E₂ formation by FR188582 is over 6000 times more selective for COX-2 than COX-1^[1].

In Vivo: Oral administration of FR-188582 (0.01-3.2 mg/kg) reverses paw edema in adjuvant arthritic rats and shows a therapeutic effect in a dose-dependent manner with ED₅₀ values (95% C.L.) of 0.074 (0.00021-0.53) and 0.063 (0.0039-0.31) mg/kg for adjuvant-injected paws and adjuvant-uninjected paws, respectively. The anti-inflammatory effect of FR-188582 (FR188582) is threefold more potent than that of Indomethacin with ED₅₀ values (95% C.L.) of 0.24 (0.047-1.8) and 0.20 (0.021-0.79) mg/kg for adjuvant-injected paws and adjuvant-uninjected paws, respectively^[1].



All products are for RESEARCH USE ONLY. Not for diagnostic & therapeutic purposes!