



FR-188582

Catalog No: tcsc7185

且	Available Sizes
Size	1mg
Size	5mg
Size	10mg
Size	20mg
	Specifications
CAS 1896	No: 99-82-9
Form	iula: 13 ^{CIN} 2 ^O 2 ^S
Path Immu	way: Inology/Inflammation
Targ COX	et:
Purit >98%	y / Grade:
	bility: M in DMSO
Obse	erved Molecular Weight:

Product Description

332.8

FR-188582 is a highly selective inhibitor of cyclooxygenase (COX)-2, with an IC_{50} 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 isover 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 ED_{50} 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 ED_{50} 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!