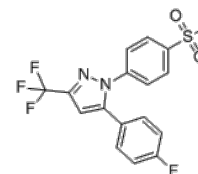


Product Name : SC-58125
Cat. No. : PC-20235
CAS No. : 162054-19-5
Molecular Formula : C₁₇H₁₂F₄N₂O₂S
Molecular Weight : 384.35
Target : Cyclooxygenase (COX)
Solubility : 10 mM in DMSO



Biological Activity

SC-58125 is a potent, selective inhibitor of **COX-2** with IC₅₀ of 0.05 μM, without inhibition on COX-1 (IC₅₀>10 μM).

SC-58125 inhibited edema at the inflammatory site and was analgesic but had no effect on PG production in the stomach and did not cause gastric toxicity.

SC-58125 suppressed the inflammatory reaction and caused a marked decrease in the level of PGE₂ but not TXB₂ and 6-keto-PGF 1 alpha.

SC-58125 rapidly reversed paw edema and reduced the level of PGE₂ in paw tissue to baseline, also reduced the expression of COX-2 mRNA and protein in the paw.

References

Seibert K, et al. *Proc Natl Acad Sci U S A*. 1994 Dec 6;91(25):12013-7.

Harada Y, et al. *Prostaglandins*. 1996 Jan;51(1):19-33.

Anderson GD, et al. *J Clin Invest*. 1996 Jun 1;97(11):2672-9.

Caution: Product has not been fully validated for medical applications. Lab Use Only!

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