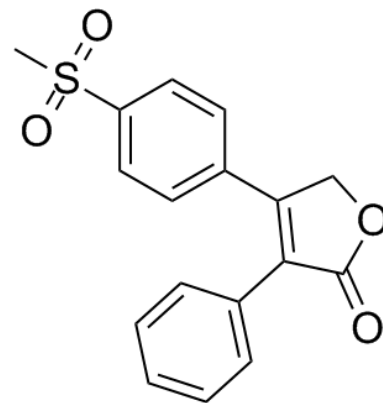


Product Name : Rofecoxib
Cat. No. : PC-45194
CAS No. : 162011-90-7
Molecular Formula : C₁₇H₁₄O₄S
Molecular Weight : 314.3557
Target : Cyclooxygenase (COX)
Solubility : 10 mM in DMSO



Biological Activity

Rofecoxib (MK-0996) is a potent, selective and orally active **COX-2** inhibitor with IC₅₀ of 26 nM for inhibition of the COX-2-dependent production of PGE₂ in human osteosarcoma cells.

Rofecoxib (MK-0996) displays 1,000-fold selectivity over COX-1 activity.

Rofecoxib (MK-0996) selectively inhibits LPS-induced, COX-2-derived PGE(2) synthesis after blood coagulation (IC₅₀=0.53 uM).

Rofecoxib (MK-0996) exhibits anti-inflammation activity in osteoarthritis and rheumatoid arthritis rodent models.

References

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Ehrich EW, et al. Clin Pharmacol Ther. 1999 Mar;65(3):336-47.

Prasit P, et al. Bioorg Med Chem Lett. 1999 Jul 5;9(13):1773-8.

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

E-mail: tech@probechem.com