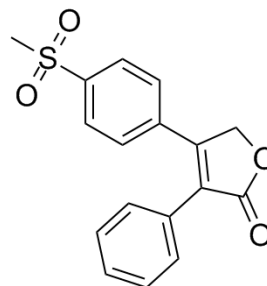


Product Name : Rofecoxib
Synonyms : MK-0996;MK-966
Cat No. : M12377
CAS Number : 162011-90-7
Molecular Formula : C₁₇H₁₄O₄S
Formula Weight : 314.36
Chemical Name : 2(5H)-Furanone, 4-[4-(methylsulfonyl)phenyl]-3-phenyl-



Description : 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; displays 1,000-fold selectivity over COX-1 activity; selectively inhibits LPS-induced, COX-2-derived PGE₂ synthesis after blood coagulation (IC₅₀=0.53 μM); exhibits anti-inflammation activity in osteoarthritis and rheumatoid arthritis rodent models. Pain Withdrawn

Pathway : Chromatin/Epigenetic

Target : COX

Receptor : COX-2

Solubility : 10 mM in DMSO

SMILES : CC(=O)C1C(C2=CC=CC=C2)=C(C3=CC=C(S(=O)(=O)C)C=C3)C(=O)O1

Storage : (-20°C)

Stability : ≥ 2 years

Reference :

1. Chan CC, et al. J Pharmacol Exp Ther. 1999 Aug;290(2):551-60.| 2. Ehrich EW, et al. Clin Pharmacol Ther. 1999 Mar;65(3):336-47.| 3. Prasit P, et al. Bioorg Med Chem Lett. 1999 Jul 5;9(13):1773-8.