

Etoricoxib

Catalog No: tcsc1047



Available Sizes

Size: 10mg

Size: 50mg

Size: 100mg



Specifications

CAS No:

202409-33-4

Formula:

$C_{18}H_{15}ClN_2O_2S$

Pathway:

Immunology/Inflammation

Target:

COX

Purity / Grade:

>98%

Solubility:

DMSO : 100 mg/mL (278.68 mM; Need ultrasonic)

Alternative Names:

MK-0663;L-791456

Observed Molecular Weight:

358.84

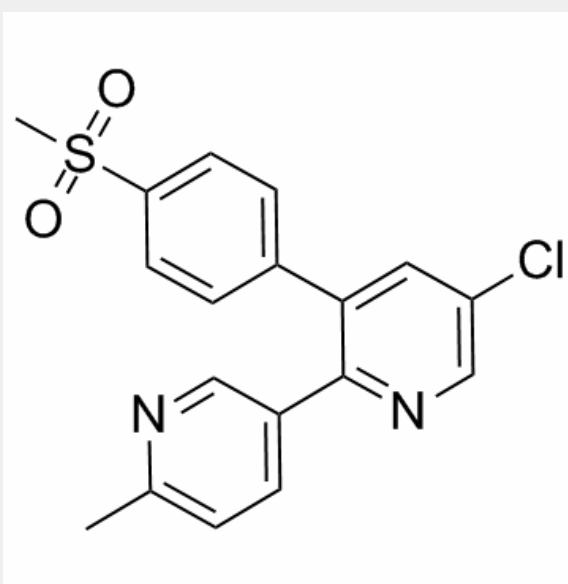
Product Description

Etoricoxib (MK-0663) is a non steroidal anti-inflammatory agent, acting as a selective and orally active **COX-2** inhibitor, with **IC₅₀**s of 1.1 μ M and 116 μ M for COX-2 and COX-1 in human whole blood.

IC50 & Target: IC50: 1.1 μ M (COX-2, in human whole blood), 116 μ M (COX-1, in human whole blood)^[1]

In Vitro: Etoricoxib (MK-0663) is a selective and orally active COX-2 inhibitor, with IC₅₀s of 1.1 μ M, 116 μ M and 5 μ M for COX-2, COX-1 in human whole blood and purified human COX-2, respectively. Etoricoxib (MK-0663) shows inhibitory effect on PGE2 production by CHO (COX-2) cells (IC₅₀, 79 nM), on purified human COX-2 with detergent (IC₅₀, 4.1 μ M), and on purified PGE2 production by U937 microsomes (low substrate; IC₅₀, 12.1 μ M). However, Etoricoxib (MK-0663) has little activity against COX-1 with a K_i of 167 μ M^[1].

In Vivo: Etoricoxib (MK-0663) (0.1-30 mg/kg, p.o.) dose-dependently inhibits carrageenan-induced paw edema, carrageenan-induced paw hyperalgesia, and endotoxin-induced pyresis in rats. Etoricoxib (≥ 10 mg/kg) completely reverses hyperalgesia response in the rat hyperalgesia model. Etoricoxib (MK-0663) (200 mg/kg/day) has no effect on urinary ⁵¹Cr excretion in rats, and nor in monkeys at 100 mg/kg/day^[1]. Etoricoxib (MK-0663) (50 and 100 mg/kg) potently increases the malondialdehyde (MDA) and myeloperoxidase (MPO) levels, and decreases the total glutathione (tGSH) and glutathione reductase (GSHRd) levels in rats. Etoricoxib (MK-0663) (100 mg/kg) significantly inhibits the decrease of NO in rats^[2]. Etoricoxib (MK-0663) (0.64 mg/kg, p.o.) reduces the features such as multiple plaque lesions, hyperplasia and dysplasia induced by 1,2-dimethylhydrazine dihydrochloride (DMH) in rats^[3].



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