

Ketorolac

Catalog No: tcsc2762



Available Sizes

Size: 100mg

Size: 500mg



Specifications

CAS No:

74103-06-3

Formula:

$C_{15}H_{13}NO_3$

Pathway:

Immunology/Inflammation

Target:

COX

Purity / Grade:

>98%

Solubility:

10 mM in DMSO

Alternative Names:

RS37619

Observed Molecular Weight:

255.27

Product Description

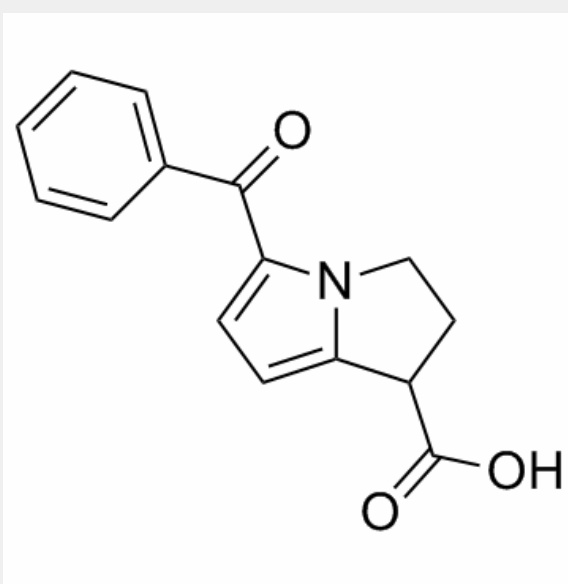
Ketorolac is a non-steroidal anti-inflammatory agent, acting as a nonselective **COX** inhibitor, with **IC₅₀**s of 20 nM for COX-1 and 120 nM for COX-2.

IC₅₀ & Target: IC₅₀: 20 nM (COX-1), 120 nM (COX-2)^[1]

In Vitro: Ketorolac is a non-steroidal anti-inflammatory agent, acting as a nonselective COX inhibitor, with IC₅₀s of 20 nM for COX-1 and 120 nM for COX-2^[1].

In Vivo: Ketorolac tromethamine (0.4%) causes nearly complete inhibition on LPS endotoxin-induced increases in FITC-dextran in the anterior chamber, and increases in aqueous PGE₂ concentrations in the aqueous humor in rabbits^[1].

Ketorolac (30 mg/kg, i.v.) rapidly reverses hyperalgesia in rats. Ketorolac also reduces carrageenan-induced hyperalgesia and paw PG production, and causes reduction in PGE₂ levels in rats^[1]. Ketorolac (4 mg/kg/day, p.o.) has no detrimental effect in the volume fraction of bone trabeculae formed inside the alveolar socket in rats^[2]. Ketorolac (60 µg/10 µL) reduces the histological changes such as ischemic cell death, including cytoplasmic eosinophilia with disintegration of cytoarchitecture and nuclear pyknosis in rats. Ketorolac also effectively reduces neuronal death and improves hindlimb motor function, and the long-term survival is similar to that in the control group^[3].



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