

Nimesulide

Catalog No: tcsc2420



Available Sizes

Size: 100mg

Size: 500mg



Specifications

CAS No:

51803-78-2

Formula:

$C_{13}H_{12}N_2O_5S$

Pathway:

Immunology/Inflammation

Target:

COX

Purity / Grade:

>98%

Solubility:

10 mM in DMSO

Alternative Names:

R805

Observed Molecular Weight:

308.31

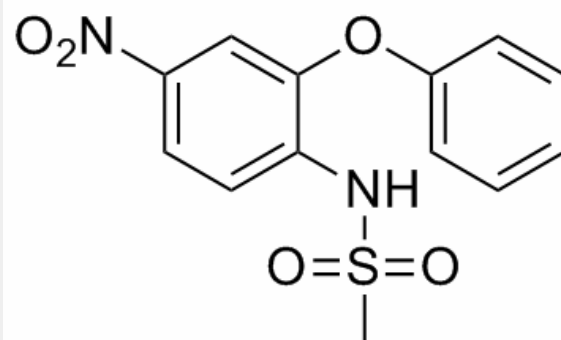
Product Description

Nimesulide is a selective **COX-2** inhibitor, with **IC₅₀**s of 70 nM-70 μM in a time-dependent manner, but it shows no effect on COX-1 (IC₅₀ >100 μM). Nimesulide has potent anti-inflammatory, analgesic and antipyretic properties.

IC50 & Target: IC50: 70 nM-70 μ M (COX-2)^[1]

In Vitro: Nimesulide is a selective COX-2 inhibitor, with IC₅₀s of 70 nM-70 μ M in a time-dependent manner, but it shows weak effect on COX-1 (IC₅₀ >100 μ M)^[1]. Nimesulide (10 μ M) effectively decreases VEGF in endometrium cancer cells, and shows no effect on that in normal cells. Nimesulide (10 and 50 μ M) dramatically decreases MCP-1 levels in normal cell, and such an effect is also observed with 10 μ M in cancer cells. In addition, Nimesulide (50 μ M) potently affects IL-8 level in normal cells, but causes no changes in cancer cells^[3].

In Vivo: Nimesulide (3 and 10 mg/kg, i.p.) effectively blocks fever induced by i.p. injection of LPS in rats. Nimesulide (3 mg/kg, i.p.) potently reduces fever response induced by IL-1 β , IL-6 or TNF- α , but does not prevent the initial rise in the febrile response induced by arachidonic acid. Nimesulide also significantly reduces PGE2 levels and PGF2 α levels in the cerebrospinal fluid of the LPS-stimulated animals, and inhibits the increase in plasma TNF- α by 97%^[2].



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