Web: www.taiclone.com
Tel: +886-2-2735-9682
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Meloxicam

Catalog No: tcsc2247

Available Sizes

Size: 100mg

Size: 500mg

Specifications

CAS No:
71125-38-7

Formula:
$C_{14}H_{13}N_3O_4S_2$

Pathway:
Immunology/Inflammation;Autophagy

Target:
COX;Autophagy

Purity / Grade:
>98%

Solubility:
DMSO : 50 mg/mL (142.29 mM; Need ultrasonic)

Observed Molecular Weight:
351.4

Product Description

Meloxicam is a non-steroidal antiinflammatory agent, inhibits **COX** activity, with **IC_{50}**s of 0.49 μM and 36.6 μM for COX-2 and COX-1, respectively.

IC50 & Target: IC50: 0.49 μM (COX-2), 36.6 μM (COX-1)[1]

In Vitro: Meloxicam (Compound 5) is a non-steroidal antiinflammatory agent, inhibits COX activity, with IC_{50}s of 0.49 μM and 36.6

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μM for COX-2 and COX-1, respectively[1]. Meloxicam inhibits COX^+ tumor cells, but shows no cytotoxicity on CF41.Mg or MDCK cells at 0.25-25 μg/mL. Furthermore, Meloxicam in combination with doxorubicin, has no synergistic effect on CF41.Mg cells. Meloxicam (0.25 μg/mL) decreases CF41.Mg cell migration and invasion, induces decrease in MMP-2 expression, and increases β-catenin phophorylation in CF41.Mg cells, but does not affect the CF41.Mg cell apoptosis[2].

In Vivo: Meloxicam (10 mg/kg) alone or in combination with rutin significantly decreases paw liking time on 1st day by 55% and 49% compared with the formalin-treated group, respectively, however the combination reduces time non-significantly on 3rd day in mice. Meloxicam alone or in combination with rutin also decreases relative liver weights, reduces MDA contents, induces liver SOD activities, hampers IL-1β content, and significantly reduces the number of positive caspase-3 immunoreactive cells in mice[3].