

Naproxen

Catalog No: **tcsc2163**



Available Sizes

Size: 5g

Size: 10g



Specifications

CAS No:

22204-53-1

Formula:

$C_{14}H_{14}O_3$

Pathway:

Immunology/Inflammation;Autophagy

Target:

COX;Autophagy

Purity / Grade:

>98%

Solubility:

H₂O : 75 mg/mL (325.72 mM; Need ultrasonic and warming); DMSO : ≥ 30 mg/mL (130.29 mM)

Alternative Names:

(S)-Naproxen

Observed Molecular Weight:

230.26

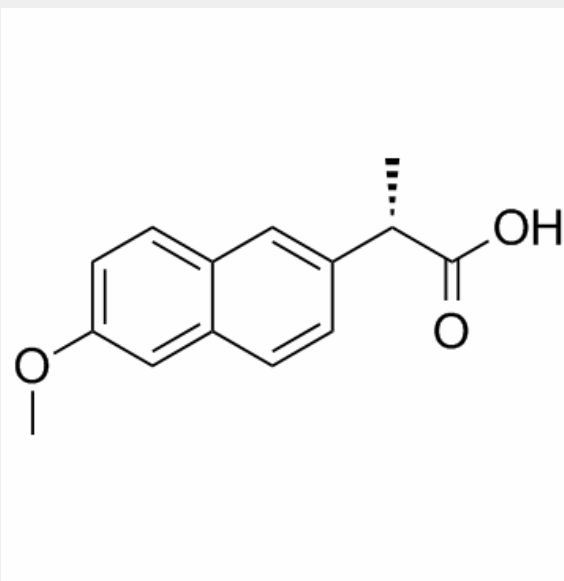
Product Description

Naproxen is a **COX-1** and **COX-2** inhibitor with **IC₅₀**s of 8.72 and 5.15 μM, respectively in cell assay.

IC₅₀ & Target: IC₅₀: 8.72 μ M (COX-1), 5.15 μ M (COX-2)^[1]

In Vitro: Naproxen etemesil is a lipophilic, non-acidic, inactive prodrug of naproxen that is hydrolysed to pharmacologically active Naproxen once absorbed. Naproxen is a well known nonsteroidal anti-inflammatory drug. Naproxen is approximately equipotent inhibitor of COX-1 and COX-2 in intact cells with IC₅₀s of 2.2 μ g/mL and 1.3 μ g/mL, respectively^[1].

In Vivo: Naproxen exerts an anti-inflammatory and antifibrotic effect in mouse model of bleomycin-induced lung fibrosis. Naproxen also downregulates TGF- β levels and Smad3/4 complex formation^[2]. Naproxen is shown to inhibit the time-courses of pain, fever and PGE₂ with similar potencies (IC₅₀=27, 40, 13 μ M)^[3].



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