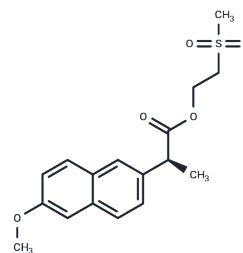


Naproxen etemesil

Chemical Properties

CAS No. :	385800-16-8
Formula:	C ₁₇ H ₂₀ O ₅ S
Molecular Weight:	336.4
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.



Biological Description

Description	Naproxen is a COX-1 and COX-2 inhibitor (IC ₅₀ s: 8.72 and 5.15 μM, respectively in cell assay). Naproxen etemesil is a lipophilic and non-acidic prodrug of naproxen. It is hydrolyzed to pharmacologically active Naproxen once absorbed.
Targets(IC ₅₀)	COX,PDE
In vitro	Naproxen is a well known nonsteroidal anti-inflammatory drug. Naproxen is an approximately equipotent inhibitor of COX-1 and COX-2 in intact cells (IC ₅₀ s: 2.2 μg/mL and 1.3 μg/mL, respectively)[1].
In vivo	Naproxen is shown to inhibit the time-courses of pain, fever, and PGE ₂ with similar potencies (IC ₅₀ =27, 40, 13 μM). Naproxen exerts an anti-inflammatory and antifibrotic effect in the mouse model of bleomycin-induced lung fibrosis. Naproxen also downregulates TGF-β levels and Smad3/4 complex formation [2][3].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.9727 mL	14.8633 mL	29.7265 mL
5 mM	0.5945 mL	2.9727 mL	5.9453 mL
10 mM	0.2973 mL	1.4863 mL	2.9727 mL
50 mM	0.0595 mL	0.2973 mL	0.5945 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Mitchell JA, et al. Selectivity of nonsteroidal antiinflammatory drugs as inhibitors of constitutive and inducible cyclooxygenase. Proc Natl Acad Sci U S A. 1993 Dec 15;90(24):11693-7.

Rosa AC, et al. Prevention of bleomycin-induced lung inflammation and fibrosis in mice by naproxen and JNJ777120 treatment. J Pharmacol Exp Ther. 2014 Nov;351(2):308-16.

Krekels EH, et al. Pharmacokinetic-pharmacodynamic modeling of the inhibitory effects of naproxen on the time-courses of inflammatory pain, fever, and the ex vivo synthesis of TXB2 and PGE2 in rats.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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