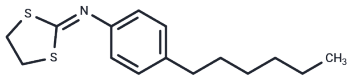
Data Sheet (Cat.No.T11981)

TargetMol
YOUR TARGET MOLECULES

MDL 19301

Chemical Properties



CAS No. : 89388-38-5

Formula: C15H21NS2

Molecular Weight: 279.46

Appearance: no data available

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Biological Description

Description	MDL 19301 is a nonsteroidal, anti-inflammatory agent.
Targets(IC50)	Others
In vivo	MDL 19301 exhibits additional anti-inflammatory effects by inhibiting carrageenan pleurisy, adjuvant arthritis, and HOAc-induced writhing. Pharmacologically, it suppresses prostaglandin synthesis, blocks arachidonic acid-induced diarrhea (excluding prostaglandin-E2-caused), and prevents arachidonic-acid-stimulated rat platelet aggregation (excluding ADP-induced). Contrary to expectations, both MDL 19301 and MDL 16,861 show minimal antipyretic effects in rats. Remarkably, oral MDL 19301 administration reduces rat paw edema significantly, induced either by carrageenan (ED30=4.8 mg/kg) or an Arthus reaction (ED30=8.2 mg/kg p.o.), and does not cause gastric ulceration in fasted rats at doses up to 1,000 mg/kg, indicating a better therapeutic index than traditional non-steroidal anti-inflammatory drugs (NSAIDs). The anti-inflammatory effect of MDL 19301 (unlike MDL 16,861) diminishes with SKF525A co-administration, suggesting MDL 19301's prodrug status for MDL 16,861 and its lower ulcerogenic potential.

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.5783 mL	17.8916 mL	35.7833 mL
5 mM	0.7157 mL	3.5783 mL	7.1567 mL
10 mM	0.3578 mL	1.7892 mL	3.5783 mL
50 mM	0.0716 mL	0.3578 mL	0.7157 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.

Reference

NS Doherty, et al. Pharmacological properties of MDL 19,301: A novel, nonsteroidal, anti-inflammatory agent. Drug Dev Res 1989 16(1) 31-44

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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