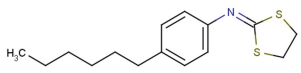
Data Sheet (Cat.No.T11981)

MDL 19301

Chemical Properties



CAS No.:	89388-38-5
Formula:	C15H21NS2
Molecular Weight:	279.46
Appearance:	N/A
Storage:	0-4℃ for short term (days to weeks), or -20℃ for long term (months).

Biological Description

Description	MDL 19301 is a nonsteroidal, anti-inflammatory agent.
Targets(IC_{50})	Others: None
In vivo	Additional anti-inflammatory properties of MDL 19301 include inhibition of carrageenan pleurisy, adjuvant arthritis, and HOAc-induced writhing. Other pharmacological data indicate that MDL 19301 administration results in inhibition of prostaglandin synthesis; inhibition of arachidonic acid-induced, but not prostaglandin-E2-induced, diarrhea in mice; and inhibition of ex vivo arachidonic-acid-induced, but not ADP-induced, rat platelet aggregation. MDL 19301 and MDL 16,861 are unexpectedly weak antipyretic agents in rats.Oral administration of MDL 19301 inhibits rat paw edema induced by carrageenan (ED30=4.8 mg/kg) or an Arthus reaction (ED30=8.2 mg/kg p.o.). The oral dose which induces gastric ulceration in 50% of fasted rats is greater than 1,000 mg/kg, demonstrating a more favorable therapeutic ratio than conventional nonsteroidal anti-inflammatory agents. The anti-inflammatory activity of MDL 19301, but not that of MDL 16,861, is attenuated by co-administration of an inhibitor of drug metabolite (SKF525A). This suggests that MDL 19301 is a prodrug of MDL 16,861 and this phenomenon would explain its lack of ulcerogenicity.

Solubility Information

Solubility	< 1 mg/ml refers to the product slightly soluble or insoluble

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.578 mL	17.892 mL	35.783 mL
5 mM	0.716 mL	3.578 mL	7.157 mL
10 mM	0.358 mL	1.789 mL	3.578 mL
50 mM	0.072 mL	0.358 mL	0.716 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 ℃ for 6 months; - 20 ℃ for 1 month. Please use it as soon as possible.

Reference

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

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