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**Product Data Sheet**

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Product Name: MDL 19301

Cat. No.: GC31908

**Chemical Properties**

Cas. No. 89388-38-5

SMILES CCCCCCC1=CC=C(/N=C2SCCS\2)C=C1Formula  $C_{15}H_{21}NS_2$  M.Wt 279.46

Solubility Soluble in DMSO Storage Store at -20°C

General tips For obtaining a higher solubility, please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT, or blue ice upon request.

Structure **Background**

MDL 19301 is a nonsteroidal, anti-inflammatory agent.

Oral administration of MDL 19301 inhibits rat paw edema induced by carrageenan (ED<sub>30</sub>=4.8 mg/kg) or an Arthus reaction (ED<sub>30</sub>=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. 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-E<sub>2</sub>-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[1].

**Caution: Product has not been fully validated for medical applications. For research use only.**

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA

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[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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