



LKT Laboratories, Inc.

## Nimesulide

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### Product Information

**Product ID** N3450

**CAS No.** 51803-78-2

**Chemical Name** N-(4-Nitro-2-phenoxyphenyl)methanesulfonamide

**Synonym** Aulin, Fansidol, Flogovital, Mesulid, Nide, Nidol, Nisulid

**Formula** C<sub>13</sub>H<sub>12</sub>N<sub>2</sub>O<sub>5</sub>S

**Formula Wt.** 308.31

**Melting Point** 143-144.5°C

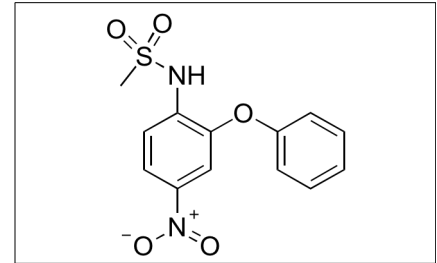
**Purity** ≥98%

**Solubility** Soluble in chloroform, DMSO (15 mg/mL), ethanol (1 mg/mL), dichloromethane, acetone.

**Store Temp** Ambient

**Ship Temp** Ambient

**Description** Nimesulide is a non-steroidal anti-inflammatory drug (NSAID) that inhibits COX-2. Nimesulide exhibits anti-inflammatory, analgesic, antipyretic, and anticancer activities. Nimesulide is clinically used to treat arthritis, acute pain, and dysmenorrhea. In hypopharyngeal carcinoma cells, nimesulide decreases cell viability, increases apoptosis, downregulates expression of survivin, COX-2, and Bcl-2, and upregulates expression of caspase 3 and Bax. In vitro under inflammatory conditions, this compound decreases activity of PKC and release of substance P and prostaglandin E2 (PGE2).



### Pricing and Availability

*Bulk quantities available upon request*

Product ID	Size	List Price
N3450	1 g	\$22.50
N3450	5 g	\$71.70
N3450	10 g	\$121.30
N3450	25 g	\$187.40

**References** Jia-Jun T, Su-Mei L, Liang Y, et al. Nimesulide inhibited the growth of hypopharyngeal carcinoma cells via suppressing Survivin expression. *Head Neck Oncol.* 2012 Mar 27;4:7. PMID: 22453101.

Vellani V, Franchi S, Prandini M, et al. Nimesulide inhibits protein kinase C epsilon and substance P in sensory neurons - comparison with paracetamol. *J Pain Res.* 2011;4:177-87. PMID: 21811393.

Suleyman H, Cadirci E, Albayrak A, et al. Nimesulide is a selective COX-2 inhibitory, atypical non-steroidal anti-inflammatory drug. *Curr Med Chem.* 2008;15(3):278-83. PMID: 18333314.

**Caution:** This product is intended for laboratory and research use only. It is not for human or drug use.