



# LKT Laboratories, Inc.

## Loxoprofen Sodium Dihydrate

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### Product Information

**Product ID** L5993

**CAS No.** 226721-96-6

**Chemical Name** α-Methyl-4-[(2-oxocyclopentyl)methyl]benzeneacetic sodium salt dihydrate

**Synonym**

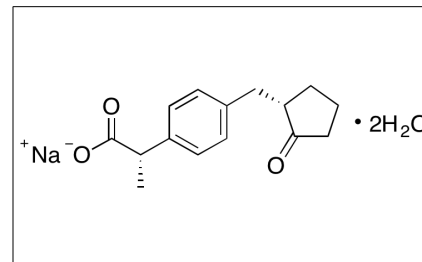
**Formula** C<sub>15</sub>H<sub>17</sub>NaO<sub>3</sub> • 2H<sub>2</sub>O

**Formula Wt.** 304.31

**Melting Point** 202-206 °C

**Purity** ≥98%

**Solubility** Chloroform, Methanol, Water



### Pricing and Availability

**Bulk quantities available upon request**

| Product ID | Size   | List Price |
|------------|--------|------------|
| L5993      | 100 mg | \$126.50   |
| L5993      | 250 mg | \$211.40   |
| L5993      | 1 g    | \$422.50   |

**Store Temp** Ambient

**Ship Temp** Ambient

**Description** Loxoprofen is a nonselective inhibitor of COX-1 and COX-2 that exhibits properties typical of most non-steroidal anti-inflammatory drugs (NSAIDs), including anti-inflammatory, analgesic, and antinociceptive activities. In vivo, loxoprofen decreases noxious heat-evoked neural responses. In other models, loxoprofen decreases levels of thromboxane B<sub>2</sub> (TxB<sub>2</sub>) and prostaglandins E<sub>2</sub> (PGE<sub>2</sub>) and F<sub>1</sub> (PGF<sub>1</sub>), decreasing aortic atherosclerotic lesions. Additionally, loxoprofen decreases nocturia in subjects with benign prostatic hyperplasia (BPH) by increasing bladder capacity.

**References** Shin HI, Kim BH, Chang HS, et al. Long-term effect of loxoprofen sodium on nocturia in patients with benign prostatic hyperplasia. Korean J Urol. 2011 Apr;52(4):265-8. PMID: 21556213.

Hamaguchi M, Seno T, Yamamoto A, et al. Loxoprofen Sodium, a Non-Selective NSAID, Reduces Atherosclerosis in Mice by Reducing Inflammation. J Clin Biochem Nutr. 2010 Sep;47(2):138-47. PMID: 20838569.

Araki T, Yokoyama T, Araki M, et al. A clinical investigation of the mechanism of loxoprofen, a non-steroidal anti-inflammatory drug, for patients with nocturia. Acta Med Okayama. 2008 Dec;62(6):373-8. PMID: 19122682.

Tsuruoka M, Maeda M, Hayashi B, et al. NSAID loxoprofen inhibits high threshold or wide dynamic range neuronal responses in the rat at different time-courses. Pharmacol Rep. 2008 Mar-Apr;60(2):156-62. PMID: 18443376.

Sugimoto M, Kojima T, Asami M, et al. Inhibition of prostaglandin production in the inflammatory tissue by loxoprofen-Na, an anti-inflammatory prodrug. Biochem Pharmacol. 1991 Nov 27;42(12):2363-8. PMID: 1764120.

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