



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

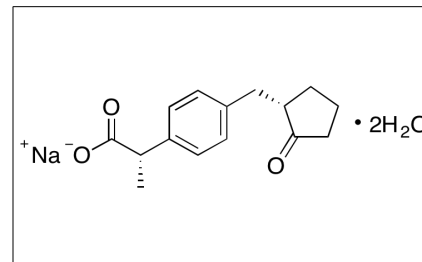
Synonym

Formula $C_{15}H_{17}NaO_3 \cdot 2H_2O$
Formula Wt. 304.31
Melting Point 202-206°C
Purity $\geq 98\%$
Solubility Chloroform, Methanol, Water

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 B2 (TxB2) and prostaglandins E2 (PGE2) and F1 (PGF1), decreasing aortic atherosclerotic lesions. Additionally, loxoprofen decreases nocturia in subjects with benign prostatic hyperplasia (BPH) by increasing bladder capacity.



Bulk quantities available upon request

Product ID	Size
L5993	100 mg
L5993	250 mg
L5993	1 g

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.