



LKT Laboratories, Inc.

Meloxicam

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## Product Information

**Product ID** M1644

**CAS No.** 71125-38-7

**Chemical Name** 4-hydroxy-2-methyl-N-(5-methyl-2-thiazolyl)-2H-1,2-benzothiazine-3-carboxamide-1, 1-dioxide

**Synonym** Metacam, Mobec

**Formula** C<sub>14</sub>H<sub>13</sub>N<sub>3</sub>O<sub>4</sub>S<sub>2</sub>

**Formula Wt.** 351.41

**Melting Point** 254° C (dec)

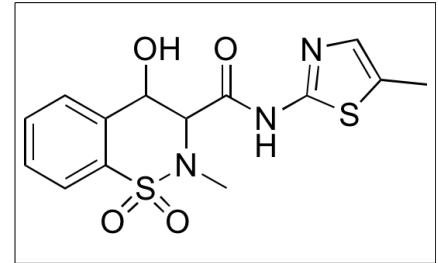
**Purity** ≥98%

**Solubility** Insoluble in water. Soluble in DMF and DMSO.

**Store Temp** Ambient

**Ship Temp** Ambient

**Description** Meloxicam is a non-steroidal anti-inflammatory drug (NSAID) that inhibits COX-2; it exhibits anti-inflammatory, analgesic, antipyretic, neuroprotective, antioxidative, and hepatoprotective activities. In animal models of Parkinson's disease, meloxicam inhibits MPTP-induced motor dysfunction and increases levels of tyrosine hydroxylase. In animal models of CCL(4)-induced liver damage, meloxicam increases levels of superoxide dismutase, catalase, and glutathione-S-transferase and decreases levels of malondialdehyde, prostaglandin E2 (PGE2), and activated caspase 3.



**Bulk quantities available upon request**

Product ID	Size
M1644	25 mg
M1644	100 mg
M1644	500 mg
M1644	1 g

**References** Tasaki Y, Yamamoto J, Omura T, et al. Meloxicam ameliorates motor dysfunction and dopaminergic neurodegeneration by maintaining Akt-signaling in a mouse Parkinson's disease model. *Neurosci Lett.* 2012 Jul 11;521(1):15-9. PMID: 22617635.

Edfawy M, Hassan MH, Mansour A, et al. Meloxicam modulates oxidative stress status, inhibits prostaglandin E2, and abrogates apoptosis in carbon tetrachloride-induced rat hepatic injury. *Int J Toxicol.* 2012 Jun;31(3):276-86. PMID: 22556387.

Noble S, Balfour JA. Meloxicam. *Drugs.* 1996 Mar;51(3):424-32. PMID: 8882380.

Malreddy PR, Coetzee JF, Kukanich B, Gehring R. Pharmacokinetics and milk secretion of gabapentin and meloxicam co-administered orally in Holstein-Friesian cows. *J Vet Pharmacol Ther.* 2013 Feb;36(1):14-20. PMID: 22372845.

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