



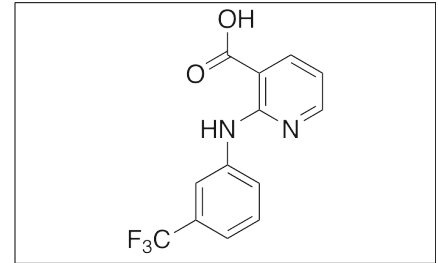
LKT Laboratories, Inc.

Niflumic Acid

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Product Information

Product ID N3322
CAS No. 4394-00-7
Chemical Name 2-[[3-Trifluoromethyl]phenyl]amino]-3-pyridine- carboxylic acid
Synonym Actol, Forenol, Nifluril
Formula C₁₃H₉F₃N₂O₂
Formula Wt. 282.22
Melting Point 204° C
Purity ≥98%
Solubility Soluble in DMSO, ethanol, methanol or acetonitrile.



Bulk quantities available upon request

Product ID	Size
N3322	10 g
N3322	25 g

Store Temp Ambient

Ship Temp Ambient

Description Niflumic acid is a fenamate non-steroidal anti-inflammatory drug (NSAID) that exhibits anti-inflammatory and antipyretic activities. Niflumic acid inhibits COX-2, Cl⁻ channels, GABA-A receptors, and T-type Ca²⁺ channels; it also acts as an inverse agonist at NMDA receptors. In vitro, niflumic acid inhibits TNF- α - and IL-1 β -induced activation of NF- κ B and expression of iNOS and indirectly activates AMPK.

References Balderas E, Ateaga-Tlecuitl R, Rivera M, et al. Niflumic acid blocks native and recombinant T-type channels. *J Cell Physiol.* 2012 Jun;227(6):2542-55. PMID: 21898399.

Chi Y, Li K, Yan Q, et al. Nonsteroidal anti-inflammatory drug flufenamic acid is a potent activator of AMP-activated protein kinase. *J Pharmacol Exp Ther.* 2011 Oct;339(1):257-66. PMID: 21765041.

Sinkkonen ST, Mansikkamäki S, Möykkynen T, et al. Receptor subtype-dependent positive and negative modulation of GABA(A) receptor function by niflumic acid, a nonsteroidal anti-inflammatory drug. *Mol Pharmacol.* 2003 Sep;64(3):753-63. PMID: 12920213.

Jerma J, Martín del Río R. Chloride transport blockers prevent N-methyl-D-aspartate receptor-channel complex activation. *Mol Pharmacol.* 1992 Feb;41(2):217-22. PMID: 1371581.

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