



LKT Laboratories, Inc.

Diclofenac free acid

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Product Information

Product ID D3210

CAS No. 15307-86-5

Chemical Name 2-[(2,6-Dichlorophenyl)amino]benzeneacetic acid

Synonym Voltarol

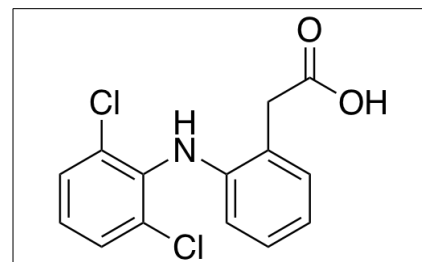
Formula C₁₄H₁₁Cl₂NO₂

Formula Wt. 296.15

Melting Point 154-158°C

Purity ≥99%

Solubility Insoluble in water. Soluble in DMSO.



Pricing and Availability

Bulk quantities available upon request

Product ID	Size	List Price
D3210	1 g	\$82.70
D3210	5 g	\$220.50
D3210	10 g	\$438.80

Store Temp Ambient

Ship Temp Ambient

Description Diclofenac is a non-steroidal anti-inflammatory drug (NSAID) that is clinically used to treat inflammation associated with arthritis and gout as well as other pain or inflammatory disorders; it is somewhat selective in inhibiting COX-2 over COX-1. Diclofenac exhibits anti-inflammatory, antipyretic, analgesic, antinociceptive, anticonvulsant, anti-angiogenic, anticancer chemotherapeutic, and chemopreventive activities. In vitro, the anticonvulsant/antiepileptic activity of diclofenac may stem from inhibition of delayed rectifier K⁺ channel amplitude and acceleration of channel inactivation; it also increases the amplitude of M-type K⁺ channels. This compound inhibits DMH-induced colon carcinogenesis in vivo, decreasing levels of COX-2, VEGF, and MCP-1. Diclofenac also decreases the epithelial-to-mesenchymal transition (EMT), suppressing squamous cell carcinoma tumor growth.

References Arumugam A, Weng Z, Talwelkar SS, et al. Inhibiting cyclooxygenase and ornithine decarboxylase by diclofenac and alpha-difluoromethylornithine blocks cutaneous SCCs by targeting Akt-ERK axis. PLoS One. 2013 Nov 8;8(11):e80076. PMID: 24260338.

Akbari E, Mirzaei E, Shahabi Majd N. Long-term Morphine-treated Rats are more Sensitive to Antinociceptive Effect of Diclofenac than the Morphine-naive rats. Iran J Pharm Res. 2013 Winter;12(1):175-84. PMID: 24250586.

Huang CW, Hung TY, Liao YK, et al. Underlying mechanism of regulatory actions of diclofenac, a nonsteroidal anti-inflammatory agent, on neuronal potassium channels and firing: an experimental and theoretical study. J Physiol Pharmacol. 2013 Jun;64(3):269-80. PMID: 23959723.

Kaur J, Sanyal SN. Diclofenac, a selective COX-2 inhibitor, inhibits DMH-induced colon tumorigenesis through suppression of MCP-1, MIP-1α and VEGF. Mol Carcinog. 2011 Sep;50(9):707-18. PMID: 21268133.

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