



Product Information

Product ID L8248
CAS No. 220991-20-8
Chemical Name 2-[(2-Chloro-6-fluorophenyl)amino]-5-methylbenzeneacetic acid

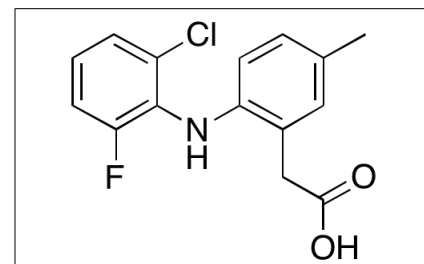
Synonym

Formula C₁₅H₁₃ClFNO₂
Formula Wt. 293.72
Melting Point 158-159°C
Purity ≥98%
Solubility

Store Temp Ambient

Ship Temp Ambient

Description Lumiracoxib is a non-steroidal anti-inflammatory drug (NSAID) that acts as an inhibitor of COX enzymes with specificity for COX-2. Like other NSAIDs, lumiracoxib exhibits anti-inflammatory, analgesic, antipyretic, and antinociceptive activities. In animal models of metabolic syndrome, lumiracoxib reverses vascular remodeling and inflammation. In animal models with experimental autoimmune encephalitis (EAE, a translational model of multiple sclerosis), lumiracoxib inhibits lymphocyte responses and decreases disease severity; in similar in vitro models, lumiracoxib inhibits T cell proliferation and modulates expression of T-bet, IL-10, and IFN-γ. This compound may also inhibit thromboxane receptors. Additionally, lumiracoxib exhibits some anticancer potential, inducing G0/G1 cell cycle arrest and apoptosis and inhibiting proliferation in non-small cell lung cancer (NSCLC) cell lines.



Bulk quantities available upon request

Product ID	Size
L8248	25 mg
L8248	100 mg
L8248	250 mg
L8248	1 g

References Windsor MA, Valk PL, Xu S, et al. Exploring the molecular determinants of substrate-selective inhibition of cyclooxygenase-2 by lumiracoxib. *Bioorg Med Chem Lett.* 2013 Nov 1;23(21):5860-4. PMID: 24060487.

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Hao JQ, Li Q, Xu SP, et al. Effect of lumiracoxib on proliferation and apoptosis of human nonsmall cell lung cancer cells in vitro. *Chin Med J (Engl).* 2008 Apr 5;121(7):602-7. PMID: 18466679.

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Esser R, Berry C, Du Z, et al. Preclinical pharmacology of lumiracoxib: a novel selective inhibitor of cyclooxygenase-2. *Br J Pharmacol.* 2005 Feb;144(4):538-50. PMID: 15655513.

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