

Product ID F4583 CAS No. 75507-68-5 Chemical Name

Synonym

Formula C₁₅H₁₇FN₄O₂ • C₄H₄O₄ Formula Wt. 304.32 Melting Point 174-175℃ Purity ≥98% Solubility
 Phone:
 888-558-5227

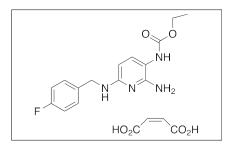
 651-644-8424

 Fax:
 888-558-7329

 Email:
 getinfo@lktlabs.com

 Web:
 lktlabs.com

Product Information



Bulk quanitites available upon request

| Product ID | Size |
|------------|--------|
| F4583 | 10 mg |
| F4583 | 25 mg |
| F4583 | 100 mg |

Store Temp Ambient

Ship Temp Ambient

Description Flupirtine maleate is an agonist at voltage-gated KCNQ/Kv7 K+ channels; opening of these channels on neurons facilitates Mcurrent generation and decreases axonal excitability. In addition to its modulation of K+ channels, flupirtine maleate also inhibits NMDA receptors and shifts gating of GABA-A receptors to decrease circulating GABA concentrations. Flupirtine maleate is an effective non-sedative analgesic, showing benefit in clinical trials of neurosurgical patients. In animal models, this compound also attenuates development of and reverses established pulmonary arterial hypertension, suggesting antihypertensive activity.

References Yadav G, Choupoo S, Das SK, et al. Evaluating the Role of Flupirtine for Postcraniotomy Pain and Compare it With Diclofenac Sodium: A Prospective, Randomized, Double Blind, Placebo-controlled Study. J Neurosurg Anesthesiol. 2013 Jun 11. [Epub ahead of print]. PMID: 23764718.

Fleckenstein J, Sittl R, Averbeck B, et al. Activation of axonal Kv7 channels in human peripheral nerve by flupirtine but not placebo - therapeutic potential for peripheral neuropathies: results of a randomised controlled trial. J Transl Med. 2013 Feb 8;11:34. PMID: 23394517.

Klinger F, Geier P, Dorostkar MM, et al. Concomitant facilitation of GABAA receptors and KV7 channels by the nonopioid analgesic flupirtine. Br J Pharmacol. 2012 Jul;166(5):1631-42. PMID: 22188423.

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Devulder J. Flupirtine in pain management: pharmacological properties and clinical use. CNS Drugs. 2010 Oct;24 (10):867-81. PMID: 20839897.

Morecroft I, Murray A, Nilsen M, et al. Treatment with the Kv7 potassium channel activator flupirtine is beneficial in two independent mouse models of pulmonary hypertension. Br J Pharmacol. 2009 Aug;157(7):1241-9. PMID: 19508393.

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