



LKT Laboratories, Inc.

Febuxostat

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Product Information

Product ID F1607

CAS No. 144060-53-7

Chemical Name 2-(3-cyano-4-isobutoxyphenyl)-4-methyl-1,3-thiazole-5-carboxylic acid

Synonym

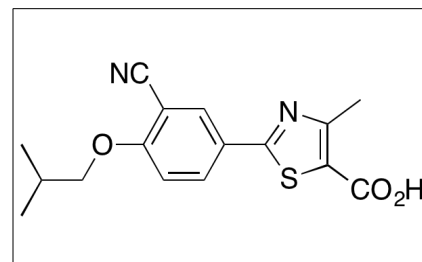
Formula $C_{16}H_{16}N_2O_3S$

Formula Wt. 316.37

Melting Point

Purity $\geq 98\%$

Solubility



Pricing and Availability

Bulk quantities available upon request

Product ID	Size	List Price
F1607	50 mg	\$54.60
F1607	250 mg	\$107.80
F1607	1 g	\$287.20

Store Temp Ambient

Ship Temp Ambient

Description Febuxostat displays a variety of beneficial properties, including anti-inflammatory, anti-hyperuricemic, antidepressant, and nephroprotective activities. Febuxostat inhibits xanthine oxidase, preventing the generation of uric acid; as a result, it is used clinically to treat gout. In vitro, febuxostat inhibits MCP-1 and ROS production through activation of MAPK phosphatase. In vivo, febuxostat decreases oxidative stress and endoplasmic reticular stress, preventing increases in serum creatine and occurrence of renal tubular injury and fibrosis during renal ischemia. Additionally, this compound decreased immobility time during a forced swim test in animal models of depression.

References Nomura J, Busso N, Ives A, et al. Febuxostat, an Inhibitor of Xanthine Oxidase, Suppresses Lipopolysaccharide-Induced MCP-1 Production via MAPK Phosphatase-1-Mediated Inactivation of JNK. *PLoS One*. 2013 Sep 25;8(9):e75527. PMID: 24086554.

Karve AV, Jagtiani SS, Chitnis KA. Evaluation of effect of allopurinol and febuxostat in behavioral model of depression in mice. *Indian J Pharmacol*. 2013 May-Jun;45(3):244-7. PMID: 23833366.

Tsuda H, Kawada N, Kaimori JY, et al. Febuxostat suppressed renal ischemia-reperfusion injury via reduced oxidative stress. *Biochem Biophys Res Commun*. 2012 Oct 19;427(2):266-72. PMID: 22995295.

Bisht M, Bist SS. Febuxostat: a novel agent for management of hyperuricemia in gout. *Indian J Pharm Sci*. 2011 Nov;73(6):597-600. PMID: 23112391.

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