



LKT Laboratories, Inc.

JZL184

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Product Information

Product ID J974440

CAS No. 1101854-58-3

Chemical Name 4-Nitrophenyl-4-(dibenzo[d][1,3]dioxol-5-yl(hydroxy)methyl)piperidine-1-carboxylate

Synonym JZL184, Monoacylglycerol Lipase (MAGL) Inhibitor III

Formula C₂₇H₂₄N₂O₉

Formula Wt. 520.49

Melting Point

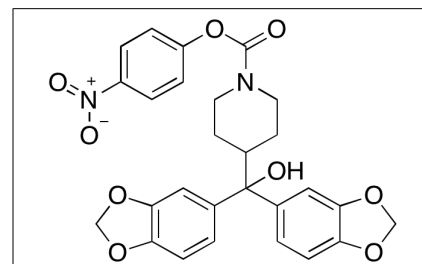
Purity ≥98%

Solubility DMSO (>20 mg/mL)

Store Temp -20°C

Ship Temp Ambient

Description JZL 184 is a monoacylglycerol lipase (MAGL) inhibitor. JZL 184 shows anti-nociceptive effects and reduces inflammation when administered in vivo to Sprague-Dawley rats. JZL 184 treatment in tandem with the fatty acid amide hydrolase (FAAH) inhibitor PF-3845 decreases withdrawal symptoms in opioid-dependent rodent models. It also shows anti-depressive effects in the chronic unpredictable mild stress mouse model for depression. In hepatocellular carcinoma (HCC), MAGL is upregulated. JZL 184 has been shown to limit the effects of MAGL in HCC, inhibiting the proliferation and invasion of HCC cells, and increasing apoptosis



Pricing and Availability

Bulk quantities available upon request

Product ID	Size	List Price
J974440	5 mg	\$53.70
J974440	10 mg	\$85.80
J974440	50 mg	\$339.40

References Woodhams SG, Wong A, Barrett DA et al. Spinal administration of the monoacylglycerol lipase inhibitor JZL 184 produces robust inhibitory effects on nociceptive processing and the development of central sensitization in the rat. *Br J Pharmacol*. 2012 Dec;167(8):1609-19. PMID: 22924700.

Ramesh D, Gamage TF, Vanuytsel T et al. Dual inhibition of endocannabinoid catabolic enzymes produces enhanced antiwithdrawal effects in morphine-dependent mice. *Neuropsychopharmacology*. 2013 May;38(6):1039-49. PMID: 23303065.

Zhong P, Wang W, Pan B et al. Monoacylglycerol lipase inhibition blocks chronic stress-induced depressive-like behaviors via activation of mTOR signaling. *Neuropsychopharmacology*. 2014 Jun;39(7):1763-76. PMID: 24476943.

Zhang J, Liu Z, Lian Z et al. Monoacylglycerol Lipase: A Novel Potential Therapeutic Target and Prognostic Indicator for Hepatocellular Carcinoma. *Sci Rep*. 2016 Oct 21;6:35784. PMID 27767105.

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