

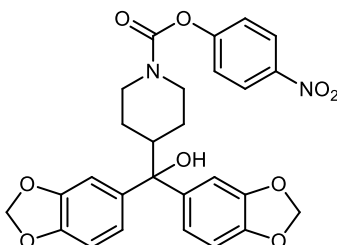
**Catalog # 10-1021**

**JZL-184**

CAS# 1101854-58-3

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

Lot # X101205



Inhibits MAG lipase ( $IC_{50}=8$  nM) selectively over FAAH. Irreversible. Cell permeable.

- 1) Long *et al.* (2009), *Selective blockade of 2-arachidonoylglycerol hydrolysis produces cannabinoid behavioral effects*; Nat. Chem. Biol., **5** 37
- 2) Pan *et al.* (2009), *Blockade of 2-arachidonoylglycerol hydrolysis by selective monoacylglycerol lipase inhibitor 4-nitrophenyl 4-(dibenzo[d][1,3]dioxol-5-yl(hydroxyl)methyl)piperidine-1-carboxylate (JZL 184) Enhances retrograde endocannabinoid signaling*; J. Pharmacol. Exp. Ther., **331** 591
- 3) Kinsey *et al.* (2009), *Blockade of endocannabinoid-degrading enzymes attenuates neuropathic pain*; J. Pharmacol. Exp. Ther., **330** 902

**PHYSICAL DATA**

Molecular Weight:	520.50
Molecular Formula:	C <sub>27</sub> H <sub>24</sub> N <sub>2</sub> O <sub>9</sub>
Purity:	98% by HPLC
	NMR: (Conforms)
Solubility:	DMSO (up to 25 mg/ml)
Physical Description:	Off-white solid
Storage and Stability:	Store as supplied at room temperature for up to 2 years from the date of purchase. Solutions in DMSO may be stored at -20°C for up to 2 months.

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