



Catalog Number:	MC11013	Product Type:	Small Molecule
Bio-Activity:	MAG lipase inhibitor	CAS #:	1101854-58-3
Research Categories:	Neuroscience	Chemical Name:	4-Nitrophenyl-4-(dibenzo[d][1,3]dioxol-5-yl(hydroxyl)methyl)piperidine-1-carboxylate
Solubility:	Soluble in DMSO (up to 25 mg/ml).	Molecular Formula:	C27H24N2O9
Purity:	> 98%	Molecular Weight:	520.50
Format:	Powder	Ship Temp:	Ambient
Storage:	Room Temperature		

Application Notes

Description/Data:

JZL-184 has been shown to inhibit MAG lipase (IC₅₀=8 nM) selectively over FAAH. JZL-184 is cell permeable.

References:

- 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

FOR RESEARCH USE ONLY

NEUROMICS' REAGENTS ARE FOR IN VITRO AND CERTAIN NON-HUMAN IN VIVO EXPERIMENTAL USE ONLY AND NOT INTENDED FOR USE IN ANY HUMAN CLINICAL INVESTIGATION, DIAGNOSIS, PROGNOSIS, OR TREATMENT. THE ABOVE ANALYSES ARE MERELY TYPICAL GUIDES. THEY ARE NOT TO BE CONSTRUED AS BEING SPECIFICATIONS. ALL OF THE ABOVE INFORMATION IS, TO THE BEST OF OUR KNOWLEDGE, TRUE AND ACCURATE. HOWEVER, SINCE THE CONDITIONS OF USE ARE BEYOND OUR CONTROL, ALL RECOMMENDATIONS OR SUGGESTIONS ARE MADE WITHOUT GUARANTEE, EXPRESS OR IMPLIED, ON OUR PART. WE DISCLAIM ALL LIABILITY IN CONNECTION WITH THE USE OF THE INFORMATION CONTAINED HEREIN OR OTHERWISE, AND ALL SUCH RISKS ARE ASSUMED BY THE USER. WE FURTHER EXPRESSLY DISCLAIM ALL WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.-V2/08/2012