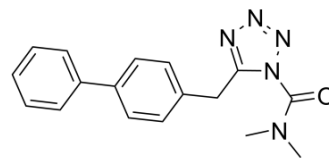


LY2183240

Cat. No.:	HY-10865		
CAS No.:	874902-19-9		
Molecular Formula:	C ₁₇ H ₁₇ N ₅ O		
Molecular Weight:	307.35		
Target:	FAAH; Autophagy		
Pathway:	Metabolic Enzyme/Protease; Neuronal Signaling; Autophagy		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro	DMSO : 50 mg/mL (162.68 mM; Need ultrasonic)					
		Solvent Concentration	Mass	1 mg	5 mg	10 mg
	Preparing Stock Solutions	1 mM		3.2536 mL	16.2681 mL	32.5362 mL
		5 mM		0.6507 mL	3.2536 mL	6.5072 mL
10 mM			0.3254 mL	1.6268 mL	3.2536 mL	
Please refer to the solubility information to select the appropriate solvent.						
In Vivo	1. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (8.13 mM); Clear solution 2. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (8.13 mM); Clear solution					

BIOLOGICAL ACTIVITY

Description	LY2183240 is a highly potent blocker of anandamide uptake (IC ₅₀ = 270 pM; K _i =540 nM). LY2183240 is a potent, covalent inhibitor of the EC-degrading enzyme fatty acid amide hydrolase (FAAH) with an IC ₅₀ of 12.4 nM. LY2183240 inactivates FAAH by carbamylation of the enzyme's serine nucleophile. LY2183240 also inhibits several other brain serine hydrolases with IC ₅₀ s of 5.3, 0.09, 8.2 nM for MAG lipase, bh6 and KIAA1363, respectively ^{[1][2] [3]} .
In Vivo	LY2183240 (3-30mg/kg; i.p.) dose-dependently attenuates formalin-induced paw-licking pain behavior in the formalin model of persistent pain mechanisms ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Animal Model:	Male Sprague-Dawley rats (Formalin Pain Model) ^[1]
Dosage:	3, 10, 30 mg/kg
Administration:	I.p.
Result:	Dose-dependently attenuated formalin-induced paw-licking pain behavior in the formalin model of persistent pain mechanisms.

CUSTOMER VALIDATION

- Eur J Pain. 2017 May;21(5):804-814.

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REFERENCES

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- [3]. Maione S, et al. Antinociceptive effects of tetrazole inhibitors of endocannabinoid inactivation: cannabinoid and non-cannabinoid receptor-mediated mechanisms. *Br J Pharmacol*. 2008 Nov;155(5):775-82.
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- [6]. Sun L, et al. Endocannabinoid activation of CB1 receptors contributes to long-lasting reversal of neuropathic pain by repetitive spinal cord stimulation. *Eur J Pain*. 2017 May;21(5):804-814.

Caution: Product has not been fully validated for medical applications. For research use only.

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