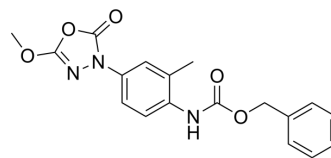


MAGL-IN-5

Cat. No.:	HY-119283
CAS No.:	359714-55-9
Molecular Formula:	C ₁₈ H ₁₇ N ₃ O ₅
Molecular Weight:	355.34
Target:	MAGL; FAAH
Pathway:	Metabolic Enzyme/Protease; Neuronal Signaling
Storage:	4°C, protect from light * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



SOLVENT & SOLUBILITY

In Vitro	DMSO : 100 mg/mL (281.42 mM; Need ultrasonic)				
	Preparing Stock Solutions	Solvent Concentration	1 mg	5 mg	10 mg
		1 mM	2.8142 mL	14.0710 mL	28.1421 mL
		5 mM	0.5628 mL	2.8142 mL	5.6284 mL
		10 mM	0.2814 mL	1.4071 mL	2.8142 mL
Please refer to the solubility information to select the appropriate solvent.					
In Vivo	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.5 mg/mL (7.04 mM); Clear solution				
	2. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (7.04 mM); Clear solution				

BIOLOGICAL ACTIVITY

Description	MAGL-IN-5 (CAY10499) is a non-selective lipase inhibitor with IC ₅₀ values of 144, 90, and 14 nM for human recombinant monoacylglycerol lipase(MAGL),hormone sensitive lipase(HSL), and fatty acid amide hydrolase(FAAH) respectively ^{[1][2]} .
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CUSTOMER VALIDATION

- Nat Commun. 2022 Nov 2;13(1):6577.

See more customer validations on www.MedChemExpress.com

REFERENCES

- [1]. Muccioli GG, et al. CAY10499, a novel monoglyceride lipase inhibitor evidenced by an expeditious MGL assay. *Chembiochem*. 2008 Nov 3;9(16):2704-10.
- [2]. Granchi C, et al. 4-Aryliden-2-methyloxazol-5(4H)-one as a new scaffold for selective reversible MAGL inhibitors. *J Enzyme Inhib Med Chem*. 2016;31(1):137-46.
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Caution: Product has not been fully validated for medical applications. For research use only.

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