MAGLi 432

Cat. No.: CAS No.: Molecular Formula: Molecular Weight: Target: Pathway: Storage:	HY-150702 2361575-20-2 C ₂₂ H ₂₄ BrClN ₂ O ₂ 463.8 MAGL Metabolic Enzyme/Protease Please store the product under the recommended conditions in the Certificate of Analysis.	
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BIOLOGICAL ACTIVI	ТҮ	
Description	MAGL active site, with $\mathrm{IC}_{50}\mathrm{v}$	r, potent, highly selective, and reversible MAGL inhibitor. MAGLi 432 binds with high affinity to the values of 4.2 nM (human enzyme) and 3.1 nM (mouse enzyme). MAGLi 432 can be used in the nation, blood–brain barrier dysfunction, neurological disorders such as multiple sclerosis, vkinson's disease ^[1] .
In Vitro	MAGLi 432 (10 μM, 25 min) displays selectivity and potency for MAGL over other serine hydrolases in mouse and human h lysates ^[1] . MAGLi 432 (1 μM, 6 h) inhibits MAGL activity and robustly enhances 2-AG levels in human NVU cells ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only. Western Blot Analysis ^[1]	
	Cell Line:	Human BMECs (hCMEC/D3), primary human astrocytes, and pericytes
	Concentration:	10 nM, 100 nM, 1 μM and 10 μM
	Incubation Time:	6 h
	Result:	Inhibited MAGL activity in a dose-dependent manner, and increased 2-AG levels in all cell types. Modulated arachidonic acid levels in a cell specific-manner, with no effect in BMECs, but significant depletion in astrocytes and pericytes.
In Vivo		njection, 1 mg/kg for 3 consecutive days) inhibits MAGL in the brain and reduces arachidonic induced neuroinflammation, without reducing BBB permeability and inflammatory cytokine

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1 mg/kg for 3 consecutive days

Intraperitoneal injection

Male CD-1 mice model of LPS-induced neuroinflammation^[1]

Animal Model:

Administration:

Dosage:



Product Data Sheet

Result:	Accumulated ~10-fold more 2-AG than vehicle controls, reducted LPS-induced PGE ₂ .
	Increased LCN2 and TNF expression compared to the LPS treatment.

REFERENCES

[1]. Alicia Kemble, et al. A potent and selective inhibitor for the modulation of MAGL activity in the neurovasculature. bioRxiv 2022.05.04.490688.

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

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