

Product Datasheet

MAGL-IN-4

Catalog No. **BP-01974** · CAS **2135785-20-3** · Form **free base** · Physical state **solid** · Color **White to off-white** · Version **1.0** · Revision **2026-09-09**

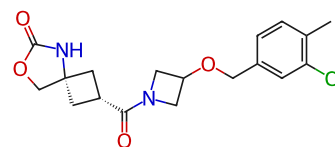
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Target MAGL	Research area Neurological Disease
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Molecular formula **C₁₈H₂₁ClN₂O₄**

Molecular weight **364.8230**

STRUCTURE



DESCRIPTION

MAGL-IN-4 is one of the monoacylglycerol lipase (MAGL) inhibitors in central nervous system-related diseases.

BIOLOGICAL ACTIVITY

In vitro: MAGL-IN-4 showed potent in vitro MAGL inhibitory activity (IC₅₀ 6.2 nM), good oral absorption and blood-brain barrier penetration. In vivo: MAGL-IN-4 showed significant pharmacodynamic changes (2-arachidonoylglycerol increase and arachidonic acid decrease) at 0.3-10 mg/kg, po. in mice.

SOLUBILITY

Soluble in DMSO 100 mg/mL

REFERENCES

[1]. Ikeda, Shuhei et al. "Design and Synthesis of Novel Spiro Derivatives as Potent and Reversible Monoacylglycerol Lipase (MAGL) Inhibitors: Bioisosteric Transformation from 3-Oxo-3,4-dihydro-2H-benzo[b][1,4]oxazin-6-yl Moiety. Journal of medicinal chemistry vol. 64,15 (2021): 11014-11044. doi:10.1021/acs.jmedchem.1c00432

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