

MAGL-IN-13

Chemical Properties

CAS No. :

Formula: C₂₈H₂₄FN₅O₄

Molecular Weight:

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.

Biological Description

Description	MAGL-IN-13 (compound(3R,4S)-5v) is a selective, irreversible MAGL inhibitor with IC ₅₀ values of 0.026 nM for mMAGL, 0.021 nM for hMAGL, and 0.24 nM for rMAGL. Additionally, MAGL-IN-13 is capable of crossing the blood-brain barrier.
Targets(IC ₅₀)	Calcium Channel, MAGL
In vitro	MAGL-IN-13, when pre-incubated at 37°C for 10 minutes, inhibits mMAGL, hMAGL, and rMAGL with IC ₅₀ values of 0.026, 0.021, and 0.24 nM, respectively. It irreversibly inhibits MAGL activity. MAGL-IN-13, at 0.1 and 1 μM, exhibits selectivity for MAGL. In NIH3T3 mouse fibroblasts, it shows low cytotoxicity with a cell viability IC ₅₀ of 0.47 μM. At a concentration of 10 μM, it can inhibit Ca ²⁺ channels in rats.
In vivo	Administered intraperitoneally at a dose of 5 mg/kg, MAGL-IN-13 effectively suppresses brain MAGL activity in a dose-dependent manner. Animal Model: Adult male mice with MAGL inhibition.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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