Web: www.taiclone.com
Tel: +886-2-2735-9682
Email: order@taiclone.com

JZL 184

Catalog No: tcsc3373

Available Sizes

Size: 10mg

Size: 50mg

Size: 100mg

Specifications

CAS No:
1101854-58-3

Formula:
$C_{27}H_{24}N_2O_9$

Pathway:
Metabolic Enzyme/Protease

Target:
MAGL

Purity / Grade:
>98%

Solubility:
DMSO : ≥ 35 mg/mL (67.24 mM)

Observed Molecular Weight:
520.49

Product Description

JZL 184 is a potent and selective inhibitor of MAGL with IC50 of 8 nM and 4 μM for inhibition of MAGL and FAAH in mouse brain membranes respectively.

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IC50 value: 8 nM [1]

Target: MAGL inhibitor

in vitro: JZL184 prolongs DSE in Purkinje neurons in cerebellar slices and DSI in CA1 pyramidal neurons in hippocampal slices. JZL184 is more potent in inhibiting mouse MAGL than rat MAGL [2].

in vivo: When administered to mice at 16 mg/kg, intraperitoneally, JZL 184 reduces MAGL activity by 85%, elevates brain 2-AG levels by 8-fold, and elicits analgesic activity in a variety of pain assays that qualitatively mimics direct central cannabinoid (CB1) agonists [1]. Acute administration of JZL184 to FAAH(-/-) mice enhanced the magnitude of a subset of cannabimimetic responses, repeated JZL184 treatment led to tolerance to its antinociceptive effects, cross-tolerance to the pharmacological effects of Δ(9)-tetrahydrocannabinol, decreases in CB1 receptor agonist-stimulated guanosine 5\'-O-(3-[(35)S]thio)triphosphate binding, and dependence as indicated by rimonabant-precipitated withdrawal behaviors, regardless of genotype [3].