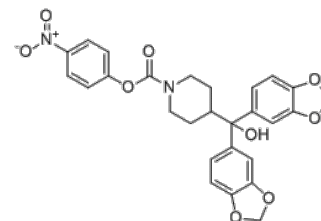


Product Name : JZL184
Cat. No. : PC-20486
CAS No. : 1101854-58-3
Molecular Formula : C₂₇H₂₄N₂O₉
Molecular Weight : 520.49
Target : Monoacylglycerol Lipase (MAGL)
Solubility : 10 mM in DMSO



CAS: 1101854-58-3

Biological Activity

JZL184 (JZL 184) is a potent, selective and irreversible **MAGL** inhibitor, blocks 2-Arachidonoylglycerol (2-AG) hydrolysis in brain membranes with IC₅₀ of 8 nM, >300-fold selectivity for MAGL over FAAH.

JZL184 increases 2-AG but not AEA concentrations in mouse brain.

JZL184-treated mice exhibited a broad array of CB1-dependent behavioral effects, including analgesia, hypothermia and hypomotility.

JZL184 attenuated mechanical and cold allodynia via a CB(1), but not a CB(2), receptor mechanism of action.

JZL184 prolongs depolarization-induced suppression of excitation (DSE) in Purkinje neurons in cerebellar slices and DSI in CA1 pyramidal neurons in hippocampal slices.

References

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Kinsey SG, et al. J Pharmacol Exp Ther. 2009 Sep;330(3):902-10.

Pan B, et al. J Pharmacol Exp Ther. 2009 Nov;331(2):591-7.

Caution: Product has not been fully validated for medical applications. Lab Use Only!

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