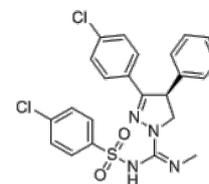


Product Name : Ibinabant
Cat. No. : PC-20522
CAS No. : 464213-10-3
Molecular Formula : C₂₃H₂₀Cl₂N₄O₂S
Molecular Weight : 487.40
Target : Cannabinoid Receptor
Solubility : 10 mM in DMSO



CAS: 464213-10-3

Biological Activity

Ibinabant (SLV319, BMS-646256) is a potent, selective and orally active antagonist of **cannabinoid CB1 receptor** with Ki of 7.8 nM, >1000-fold selectivity for CB1 over CB2.

SLV319 concentration dependently antagonizes WIN-55212 (CB1 agonist)-induced arachidonic acid release in CHO cells with pA2 of 9.9.

SLV319 (3 mg/kg/day; p.o. for 28 d) reduces the food intake, body weight, and hormonal/metabolic abnormalities in diet-induced obesity (DIO) mice.

SLV319 (3 mg/kg/day, p.o. for 28 d) reverses the HFD-induced increase in adipose tissue leptin mRNA.

SLV319 (3-10 mg/kg; daily oral gavage) has weight loss-independent antidiabetic effects and attenuates β-cell loss in a rat model of progressive β-cell dysfunction.

References

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Tam J, et, al. *Cell Metab.* 2012 Aug 8;16(2):167-79.

Rohrbach K, et, al. *Diabetes Obes Metab.* 2012 Jun;14(6):555-64.

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

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