

Product Datasheet

SLV319 (orb1222322)

Catalog Number	orb1222322
Category	Small Molecules
Description	SLV319 has been used in trials studying the treatment of Obesity and Obesity and Type 2 Diabetes.(In Vitro):Cannabinoid receptor 1 (CB1R) antagonists appear to be promising drugs for the treatment of obesity, however, serious side effects have hampered their clinical application. Ibipinabant is a new, potent [Ki (CB1)=7.8 nM] and selective [Ki (CB2)=7.943 nM] CB1 antagonist [pA2 for arachidonic acid release in CHO cells=9.9] with in vitro pharmacological characteristics similar to rimonabant including inverse agonism and brain penetrance.(In Vivo):(±)-Ibipinabant ((±)-SLV319) (3 mg/kg) reduces unfasted glucose to a significantly greater degree than rimonabant at the same dose on days 17, 28 and 38. Chronic treatment with (±)-Ibipinabant ((±)-SLV319) significantly attenuates the progression of diabetes in ZDF rats, blunting the increase in blood glucose and HbA1c over time. Ibipinabant also reduces the hyperinsulinemia apparent at 6-8 weeks of age and attenuates the dramatic reduction in insulin levels observed 1-2 weeks later.
Target	CB1
Purity	>98% (HPLC)
MW	487.4
Target Areas	CB1
Solubility (25°C)	DMSO : ≥ 31 mg/mL; 63.60 mM
CAS Number	362519-49-1
Formula	C ₂₃ H ₂₀ Cl ₂ N ₄ O ₂ S
SMILES	O=S(=O)(N=C(NC)N1CC(C(=N1)c2ccc(Cl)cc2)c3ccccc3)c4ccc(Cl)cc4

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Storage	Storage temperature: -20°C. Stability: $\geq$ 2 years
Note	For research use only
Expiration Date	12 months from date of receipt.

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