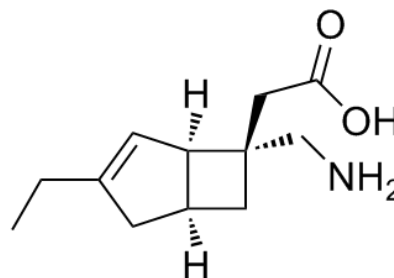


Product Name : Mirogabalin
Cat. No. : PC-43138
CAS No. : 1138245-13-2
Molecular Formula : C₁₂H₁₉NO₂
Molecular Weight : 209.2848
Target : Calcium Channel
Solubility : DMSO: 10 mM; Methanol: ≥ 35 mg/mL



Biological Activity

Mirogabalin (DS-5565) is a potent, selective ligand of the **α_{2δ}** subunit of **voltage-gated calcium channels** with K_d of 13.5/22.7/27.0/47.6 nM for human α_{2δ}-1, human α_{2δ}-2, rat α_{2δ}-1 and rat α_{2δ}-2 subunits, respectively.

Mirogabalin (DS-5565) exhibits a slower dissociation rate for the α_{2δ}-1 subunit than the α_{2δ}-2 subunit compared to pregabalin.

Mirogabalin (DS-5565) shows more potent and longer lasting analgesic effects in experimental neuropathic pain models, partial sciatic nerve ligation rats and streptozotocin-induced diabetic rats.

Mirogabalin (DS-5565) inhibits rota-rod performance and locomotor activity in rats.

References

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Vinik A, et al. *Diabetes Care.* 2014 Dec;37(12):3253-61.

Domon Y, et al. *J Pharmacol Exp Ther.* 2018 Mar 21. pii: jpet.117.247551.

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

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