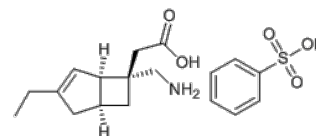


Product Name : Mirogabalin besylate
Cat. No. : PC-50011
CAS No. : 1138245-21-2
Molecular Formula : C₁₈H₂₅NO₅S
Molecular Weight : 367.46
Target : Calcium Channel
Solubility : 10 mM in DMSO



Biological Activity

Mirogabalin besylate (DS-5565) is a potent, selective ligand of the $\alpha 2\delta$ subunit of **voltage-gated calcium channels** with Kd of 13.5/22.7/27.0/47.6 nM for human $\alpha 2\delta$ -1, human $\alpha 2\delta$ -2, rat $\alpha 2\delta$ -1 and rat $\alpha 2\delta$ -2 subunits, respectively.

Mirogabalin besylate (DS-5565) exhibits a slower dissociation rate for the $\alpha 2\delta$ -1 subunit than the $\alpha 2\delta$ -2 subunit compared to pregabalin.

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

References

Merante D, et al. *Pain Med.* 2017 Nov 1;18(11):2198-2207.

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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