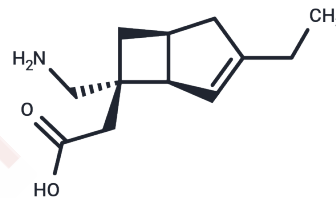


Mirogabalin

Chemical Properties

CAS No. :	1138245-13-2
Formula:	C ₁₂ H ₁₉ NO ₂
Molecular Weight:	209.28
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.



Biological Description

Description	Mirogabalin (DS5565) is a calcium channel blocker with analgesic effects.
Targets(IC50)	Calcium Channel
In vivo	Mirogabalin has potent and sustained analgesic effects (ED ₅₀ = 2.5 mg/kg) in rats with diabetes induced by streptozotocin. Mirogabalin does not inhibit activities associated with CNS adverse effects of analgesics, such as rotarod performance (ID ₅₀ = 9.4 mg/kg) or locomotor activity (ID ₅₀ = 43.9 mg/kg), at its effective dose.

Solubility Information

Solubility	H ₂ O: 9.4 mg/mL (44.92 mM), Sonication is recommended. DMSO: 1.83 mg/mL (8.74 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	4.7783 mL	23.8914 mL	47.7829 mL
5 mM	0.9557 mL	4.7783 mL	9.5566 mL
10 mM	0.4778 mL	2.3891 mL	4.7783 mL
50 mM	0.0956 mL	0.4778 mL	0.9557 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Vinik A , Rosenstock J , Sharma U , et al. Efficacy and Safety of Mirogabalin (DS-5565) for the Treatment of Diabetic Peripheral Neuropathic Pain: A Randomized, Double-Blind, Placebo- and Active Comparator-Controlled, Adaptive Proof-of-Concept Phase 2 Study[J]. Diabetes Care, 2014, 37(12):3253-61.

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