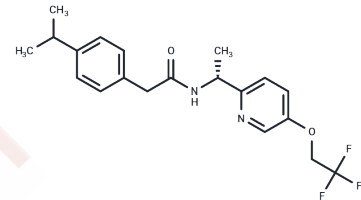


Suvecaltamide

Chemical Properties

CAS No. :	953778-58-0
Formula:	C ₂₀ H ₂₃ F ₃ N ₂ O ₂
Molecular Weight:	380.4
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	Suvecaltamide (MK-8998) as potent inhibitors of T-type calcium channels.
Targets(IC50)	Calcium Channel
In vivo	MK-8998 displayed in vivo efficacy in rodent models of epilepsy and sleep.

Solubility Information

Solubility	DMSO: 100 mg/mL (262.88 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 4 mg/mL (10.52 mM),Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.6288 mL	13.1441 mL	26.2881 mL
5 mM	0.5258 mL	2.6288 mL	5.2576 mL
10 mM	0.2629 mL	1.3144 mL	2.6288 mL
50 mM	0.0526 mL	0.2629 mL	0.5258 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

Reger T S , Yang Z Q , Schlegel K A S , et al. Pyridyl amides as potent inhibitors of T-type calcium channels[J]. Bioorganic & Medicinal Chemistry Letters, 2011, 21(6):1692-1696.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481