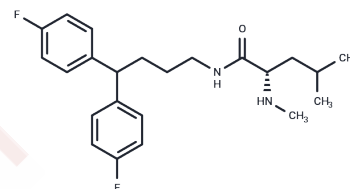


PD0176078

## Chemical Properties

CAS No. : 248922-46-5  
 Formula: C<sub>23</sub>H<sub>30</sub>F<sub>2</sub>N<sub>2</sub>O  
 Molecular Weight: 388.49  
 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	PD0176078 () is a newly blocker of N-type Calcium channel.
Targets(IC50)	Calcium Channel

## Solubility Information

Solubility	DMSO: 50 mg/mL (128.7 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: 2 mg/mL (5.15 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	2.5741 mL	12.8703 mL	25.7407 mL
5 mM	0.5148 mL	2.5741 mL	5.1481 mL
10 mM	0.2574 mL	1.287 mL	2.5741 mL
50 mM	0.0515 mL	0.2574 mL	0.5148 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

Takashi Yamamoto, et al. Discovery, structure-activity relationship study, and oral analgesic efficacy of cyproheptadine derivatives possessing N-type calcium channel inhibitory activity. *Bioorg Med Chem*. 2006 Aug 1; 14(15):5333-9.

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