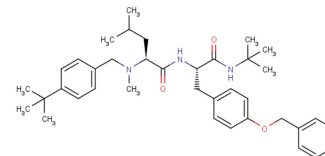


PD173212

## Chemical Properties

CAS No.:	217171-01-2
Formula:	C <sub>38</sub> H <sub>53</sub> N <sub>3</sub> O <sub>3</sub>
Molecular Weight:	599.85
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).



## Biological Description

Description	PD173212 is a selective N-type voltage-sensitive calcium channel (VSCC) blocker. It has an IC <sub>50</sub> of 36 nM in IMR-32 assays.
Targets(IC <sub>50</sub> )	VSCC: 36 nM
In vitro	PD 173212 possesses selectivity for non L-type Ca <sup>2+</sup> channels versus neuronal Na <sup>+</sup> , K <sup>+</sup> , and L-type Ca <sup>2+</sup> channels. PD173212 effectively blocks recombinant B-class (N-type) calcium channel currents 78±7.8% (IC <sub>50</sub> : 74 nM), by whole-cell voltage-clamp techniques [1].
In vivo	In the audiogenic seizure model, PD173212 (30 mg/kg, i.v.) displays moderate efficacy in preventing tonic seizures [1].

## Solubility Information

Solubility	DMSO: 100 mg/mL (166.71 mM) (< 1 mg/ml refers to the product slightly soluble or insoluble)
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### Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.667 mL	8.335 mL	16.671 mL
5 mM	0.333 mL	1.667 mL	3.334 mL
10 mM	0.167 mL	0.834 mL	1.667 mL
50 mM	0.033 mL	0.167 mL	0.333 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 °C for 6 months; - 20 °C for 1 month. Please use it as soon as possible.

### Reference

1. Hu LY, et al. Structure-activity relationship of N-methyl-N-alkyl-peptidylamines as novel N-type calcium channel blockers. Bioorg Med Chem Lett. 1999 Aug 2;9(15):2151-6.

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