

NP118809

Chemical Properties

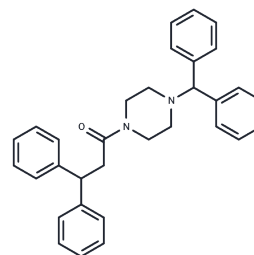
CAS No. : 41332-24-5

Formula: C₃₂H₃₂N₂O

Molecular Weight: 460.61

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	NP118809 (39-1B4) is a potent N-type calcium channel blocker (IC ₅₀ : 0.11 μM).
Targets(IC ₅₀)	Calcium Channel
In vitro	NP118809 with a total linker length of 3 carbons (n = 1) and which exhibited approximately a 500-fold increased N-type channel blockade compared to compounds in this series with linkers either shorter (n = 0, 2a) or longer (n = 2, 4, 2c e). Examination of the effect of NP118809 on functional L-type calcium channel activity showed that this compound was approximately 111-fold more selective for N-type channels[1]

Solubility Information

Solubility	DMSO: 4.61 mg/mL (10.01 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	2.171 mL	10.8552 mL	21.7103 mL
5 mM	0.4342 mL	2.171 mL	4.3421 mL
10 mM	0.2171 mL	1.0855 mL	2.171 mL
50 mM	0.0434 mL	0.2171 mL	0.4342 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

Zamponi G W , Feng Z P , Zhang L , et al. Scaffold-based design and synthesis of potent N-type calcium channel blockers[J]. Bioorganic & Medicinal Chemistry Letters, 2009, 19(22):6467-6472.

Pajouhesh H , Feng Z P , Ding Y , et al. Structure-activity relationships of diphenylpiperazine N-type calcium channel inhibitors[J]. Bioorganic & Medicinal Chemistry Letters, 2010, 20(4):1378-1383.

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