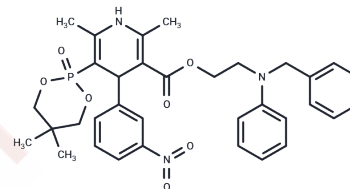


Efonidipine

Chemical Properties

CAS No. :	111011-63-3
Formula:	C ₃₄ H ₃₈ N ₃ O ₇ P
Molecular Weight:	631.66
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	Efonidipine (NZ-105)(NZ-105) is a dihydropyridine calcium channel blocker, blocking both T-type and L-type calcium channels.
Targets(IC50)	Calcium Channel

Solubility Information

Solubility	DMSO: 22.5 mg/mL (35.62 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 (3.17 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	1.5831 mL	7.9157 mL	15.8313 mL
5 mM	0.3166 mL	1.5831 mL	3.1663 mL
10 mM	0.1583 mL	0.7916 mL	1.5831 mL
50 mM	0.0317 mL	0.1583 mL	0.3166 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

Ikeda K, et al. Tohoku J Exp Med. 2011;224(4):263-71.

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