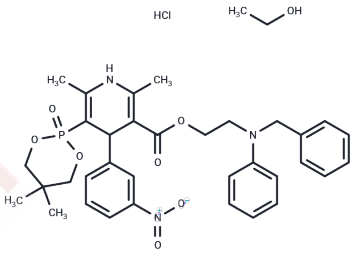
Data Sheet (Cat.No.T8401)

TargetMol

Efonidipine hydrochloride monoethanolate

Chemical Properties



CAS No. : 111011-76-8

Formula: C36H45ClN3O8P

Molecular Weight: 714.18

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 hydrochloride monoethanolate (NZ-105 hydrochloride monoethanolate) is a Ca(2+)-channel blocker that enhances the production of dehydroepiandrosterone sulfate in NCI-H295R human adrenocortical carcinoma cells.
Targets(IC50)	Calcium Channel

Solubility Information

Solubility	DMSO: 25 mg/mL (35.01 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 (2.8 mM),Sonication is recommended. *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.*

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.4002 mL	7.001 mL	14.0021 mL
5 mM	0.280 mL	1.4002 mL	2.8004 mL
10 mM	0.140 mL	0.7001 mL	1.4002 mL
50 mM	0.028 mL	0.140 mL	0.280 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. Efonidipine, a Ca(2+)-channel blocker, enhances the production of dehydroepiandrosterone sulfate in NCI-H295R human adrenocortical carcinoma cells. Tohoku J Exp Med. 2011;224(4):263-71.

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