

CCT129957

Chemical Properties

CAS No. : 883098-58-6

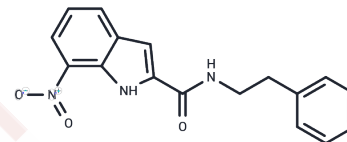
Formula: C17H15N3O3

Molecular Weight: 309.32

Store at low temperature

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	CCT129957 is a novel and potent phospholipase C- γ (PLC- γ) inhibitor with an IC ₅₀ of about 3 μ M and a GC ₅₀ of 15 μ M. CCT129957 exhibits anticancer activity and inhibits Ca ²⁺ release in squamous cells.
Targets(IC ₅₀)	Calcium Channel, Phospholipase
In vitro	The left phenyl group is situated within a hydrophobic pocket formed by various amino acids. The predicted binding mode of CCT129957 exhibits a robust hydrogen bonding pattern and hydrophobic contacts[1]. CCT129957 inhibits the growth of renal UO-31 and breast T-47D cancer cells by approximately 60-70%[2].

Solubility Information

Solubility	DMSO: 250 mg/mL (808.22 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: 10 mg/mL (32.33 mM), Solution. 10% DMSO+90% Saline: < 10 mg/mL (32.33 mM), Lower concentrations may be soluble, but exact solubility limit is unknown. <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	3.2329 mL	16.1645 mL	32.329 mL
5 mM	0.6466 mL	3.2329 mL	6.4658 mL
10 mM	0.3233 mL	1.6164 mL	3.2329 mL
50 mM	0.0647 mL	0.3233 mL	0.6466 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

Feng L, et al. The effect of PLC- γ 2 inhibitors on the growth of human tumour cells. Eur J Med Chem. 2012 Aug;54:463-9.

Reynisson J, et al. The identification of novel PLC-gamma inhibitors using virtual high throughput screening. Bioorg Med Chem. 2009 Apr 15;17(8):3169-76.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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