

## NPC-15437 dihydrochloride

## Chemical Properties

CAS No. : 141774-20-1

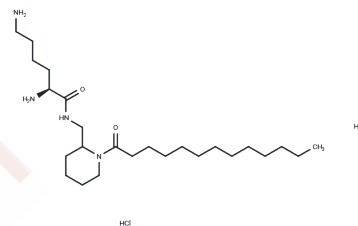
Formula: C<sub>25</sub>H<sub>52</sub>Cl<sub>2</sub>N<sub>4</sub>O<sub>2</sub>

Molecular Weight: 511.62

Keep away from moisture

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	NPC-15437 dihydrochloride is a synthetic prototype belonging to a novel structural class of protein kinase C (PKC) inhibitors. NPC 15437 potently inhibits PKC enzymatic activity and phorbol ester binding with IC <sub>50</sub> values around 19 μM and 23 μM, respectively, without affecting cAMP-dependent or Ca <sup>2+</sup> /calmodulin-dependent kinases at concentrations up to 300 μM, thereby demonstrating selectivity for PKC and serving as an important tool compound for dissecting PKC-mediated cellular signaling mechanisms.
Targets(IC <sub>50</sub> )	PKC

## Solubility Information

Solubility	PBS (pH 7.2): 0.5 mg/mL (slightly soluble), Sonication is recommended. Ethanol: 2.5 mg/mL (4.89 mM), Sonication is recommended. DMF: 5 mg/mL (9.77 mM), Sonication is recommended. DMSO: 5.13 mg/mL (10.03 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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### Preparing Stock Solutions

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	1mg	5mg	10mg
1 mM	1.9546 mL	9.7729 mL	19.5458 mL
5 mM	0.3909 mL	1.9546 mL	3.9092 mL
10 mM	0.1955 mL	0.9773 mL	1.9546 mL
50 mM	0.0391 mL	0.1955 mL	0.3909 mL

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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

Mathis C, et al. The selective protein kinase C inhibitor, NPC 15437, induces specific deficits in memory retention in mice. *Eur J Pharmacol.* 1992 Sep 10;220(1):107-10.

Sullivan JP, et al. 2,6-Diamino-N-([1-(1-oxotridecyl)-2-piperidinyl] methyl)hexanamide (NPC 15437): a novel inhibitor of protein kinase C interacting at the regulatory domain. *Mol Maheux, J., et al. Pharmacol.* 1992 Jan;41(1): 38-44.

Modulation of Nur77 expression by dopaminergic drug is altered by a MEK pathway inhibitor in vivo. *The FASEB Journal*, 20: A684-A685.

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