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## DATASHEET

### NPC-15437 dihydrochloride

### Product overview

<b>Name</b>	NPC-15437 dihydrochloride
<b>Cat No</b>	HB0457
<b>Biological action</b>	Inhibitor
<b>Description</b>	Competitive, selective PKC inhibitor

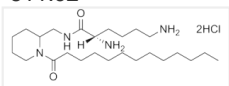
### Biological Data

<b>Biological description</b>	Competitive and selective protein kinase C (PKC) inhibitor ( $IC_{50} = 19.0 \mu M$ ) that interacts at N terminal of C1 domain. Shows selectivity for PKC- $\alpha$ over PKC-HH and PKC-CB ( $IC_{50}$ values are 22, 30, 130 $\mu M$ respectively). Exhibits little or no activity for cAMP-dependent or calcium/calmodulin-dependent protein kinase ( $IC_{50}$ values $>300 \mu M$ ). Displays neuroprotective properties.
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### Solubility & Handling

<b>Storage instructions</b>	+4 °C
<b>Solubility overview</b>	Soluble in water or DMSO
<b>Important</b>	This product is for RESEARCH USE ONLY and is not intended for therapeutic or diagnostic use. Not for human or veterinary use.

### Chemical Data

<b>Molecular Weight</b>	511.62
<b>Chemical structure</b>	
<b>Molecular Formula</b>	$C_{25}H_{50}N_4O_2 \cdot 2HCl$
<b>CAS Number</b>	136449-85-9
<b>PubChem identifier</b>	16219723
<b>SMILES</b>	<chem>CCCCCCCCCCCC(=O)N1CCCC1CNC(=O)[C@H](CCCCN)N.Cl.Cl</chem>

### References

#### 2,6-Diamino-N-([1-oxotridecyl]-2-piperidiny[methyl])hexanamide (NPC 15437): a selective inhibitor of protein kinase C.

Sullivan JP *et al* (1991) Agents Actions 34(1-2)

**PubMedID** [1793019](#)

#### 2,6-Diamino-N-([1-(1-oxotridecyl)-2-piperidiny] methyl)hexanamide (NPC 15437): a novel inhibitor of protein kinase C interacting at the regulatory domain.

Sullivan JP *et al* (1992) Mol Pharmacol 41(1)

**PubMedID** [1732721](#)

**NPC 15437 interacts with the C1 domain of protein kinase C. An analysis using mutant PKC constructs.**

Sullivan JP *et al* (1991) FEBS Lett 285(1)

**PubMedID** [2065775](#)

**The selective protein kinase C inhibitor, NPC 15437, induces specific deficits in memory retention in mice.**

Mathis C *et al* (1992) Eur J Pharmacol 220(1)

**PubMedID** [1425976](#)

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