Hello Bio, Inc.
304 Wall St., Princeton, NJ 08540 USA

T. 609-683-7500
F. 609-228-4994

customercare-usa@hellobio.com

DATASHEET

NPC-15437 dihydrochloride

Product overview

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

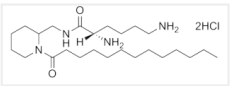
Biological Data

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

Solubility & Handling

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

Chemical Data

Molecular Weight	511.62
Chemical structure	
Molecular Formula	$C_{25}H_{50}N_4O_2.2HCl$
CAS Number	136449-85-9
PubChem identifier	16219723
SMILES	CCCCCCCCCCCCC(=O)N1CCCCC1CNC(=O)[C@H](CCCCN)N.Cl.Cl

References

2,6-Diamino-N-([1-oxotridecyl)-2-piperidinyl]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-piperidinyl] 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