
Product Data Sheet

Product Name: NPC-15437 (hydrochloride)

Cat. No.: GC18935

Chemical Properties

Cas. No. 141774-20-1

Chemical Name (2S)-2,6-diamino-N-[[1-(1-oxotridecyl)-2-piperidiny]methyl]-hexanamide, dihydrochloride

SMILES O=C(CCCCCCCCCCCC)N1CCCCC1CNC([C@@H](N)CCCCN)=O.Cl.ClFormula $C_{25}H_{50}N_4O_2 \cdot 2HCl$ M.Wt 511.6

Solubility DMF: 10 mg/ml, DMSO: 10 mg/ml, Ethanol: 5 mg/ml, PBS (pH 7.2): 1 mg/ml Storage Store at -20°C

General tips For obtaining a higher solubility, please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution: ship with blue ice. All other available sizes: ship with RT, or blue ice upon request.

Structure **Background**

NPC-15437 is a selective protein kinase C (PKC) inhibitor ($IC_{50} = 19 \mu M$). It competitively inhibits phorbol ester- ($K_i = 5 \mu M$) and phosphatidylserine-induced ($K_i = 12 \mu M$) PKC activity but does not affect the activity of cAMP-dependent or Ca^{2+} /calmodulin-dependent protein kinases. PKC signaling is involved in learning and memory, and when NPC-15437 was administered after Y maze training (0.1-10 mg/kg i.p.), it led to memory retention deficits in mice.

Caution: Product has not been fully validated for medical applications. For research use only.

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA