

Certificate of Analysis

Product Name: CP 339818 hydrochloride

Catalog No.: 1399

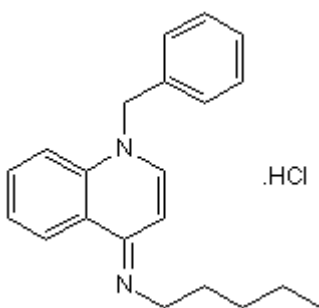
Batch No.: 1

CAS Number: 478341-55-8

IUPAC Name: *N*-[1-(Phenylmethyl)-4(1*H*)-quinolinylidene]-1 pentanamine hydrochloride

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₁H₂₄N₂·HCl
Batch Molecular Weight: 340.89
Physical Appearance: White solid
Solubility: water to 20 mM
Storage: Store at RT
Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.5 (Dichloromethane:Methanol:Ammonia soln. [9:1:0.1])
Melting Point: Between 109 - 110°C
HPLC: Shows 100% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure
Microanalysis:

	Carbon	Hydrogen	Nitrogen	Chlorine
Theoretical	73.99	7.39	8.22	10.4 0 0
Found	73.81	7.44	8.11	10.39 0 0

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

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Description:

Potent, non-peptide K_v1.3 channel antagonist that preferentially binds to the C-type inactivated state of the channel (IC₅₀ ~ 200 nM). Inhibits K_v1.4 with an IC₅₀ of ~ 300 nM. Selective over K_v1.1, K_v1.2, K_v1.5, K_v1.6, K_v3.1-4, and K_v4.2.

Physical and Chemical Properties:

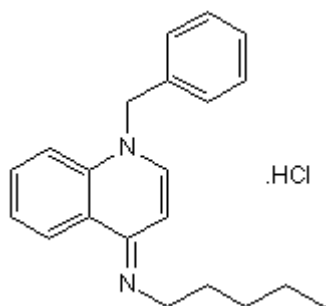
Batch Molecular Formula: C₂₁H₂₄N₂.HCl

Batch Molecular Weight: 340.89

Physical Appearance: White solid

Minimum Purity: >99%

Batch Molecular Structure:



References:

Nguyen et al (1996) Novel nonpeptide agents potently block the C-type inactivated conformation of Kv1.3 and suppress T cell activation. *Mol.Pharmacol.* **50** 1672. PMID: 8967992.

Jager et al (1998) Regulation of mammalian *Shaker*-related K⁺ channels: evidence for non-conducting closed and non-conducting inactivated. *J.Physiol.* **506** 291. PMID: 9490854.

Storage: Store at RT

Solubility & Usage Info:

water to 20 mM

Stability and Solubility Advice:

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. Our standard recommendations are:

SOLIDS: Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

SOLUTIONS: We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

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