

Product Name: NNC 711

Catalog No.: 1779

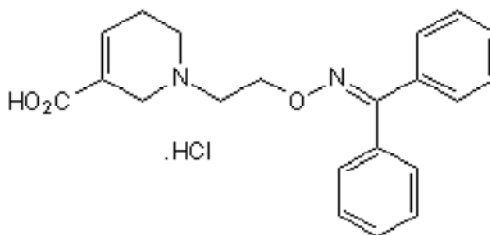
Batch No.: 3

CAS Number: 145645-62-1

IUPAC Name: 1,2,5,6-Tetrahydro-1-[2-[[[(diphenylmethylene)amino]oxy]ethyl]-3-pyridinecarboxylic acid hydrochloride

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₁H₂₂N₂O₃.HCl
Batch Molecular Weight: 386.88
Physical Appearance: White solid
Solubility: water to 10 mM
 ethanol to 10 mM
 DMSO to 100 mM
Storage: Desiccate at +4°C
Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.21 (Dichloromethane:Methanol [9:1])
HPLC: Shows 100% purity
¹H NMR: Consistent with structure
 Mass Spectrum: Consistent with structure
Microanalysis:

| | Carbon | Hydrogen | Nitrogen |
|-------------|--------|----------|----------|
| Theoretical | 65.2 | 5.99 | 7.24 |
| Found | 65.12 | 6.05 | 7.39 |

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

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Description:

Potent and selective inhibitor of GABA uptake by GAT-1 (IC₅₀ values are 0.04, 171, 1700 and 622 μM for hGAT-1, rGAT-2, hGAT-3 and hBGT-1 respectively). Anticonvulsant following systemic administration in vivo. Also exhibits cognition-enhancing activity.

Physical and Chemical Properties:

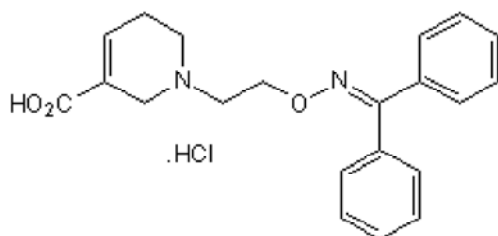
Batch Molecular Formula: C₂₁H₂₂N₂O₃.HCl

Batch Molecular Weight: 386.88

Physical Appearance: White solid

Minimum Purity: >99%

Batch Molecular Structure:



Storage: Desiccate at +4°C

Solubility & Usage Info:

water to 10 mM

ethanol to 10 mM

DMSO to 100 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.

References:

O'Connell et al (2001) Anti-ischemic and cognition-enhancing properties of NNC-711, a γ-aminobutyric acid reuptake inhibitor. *Eur.J.Pharmacol.* **424** 37. PMID: 11470258.

Borden et al (1994) Tiagabine, SK&F 89976-A, CI-966, and NNC-711 are selective for the cloned GABA transporter GAT-1. *Eur.J.Pharmacol.* **269** 219. PMID: 7851497.

Suzdak et al (1992) NNC-711, a novel potent and selective γ-aminobutyric acid uptake inhibitor: pharmacological characterization. *Eur.J.Pharmacol.* **224** 189. PMID: 1468507.

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