1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: \(C_{21}H_{22}N_2O_3\cdot HCl\)
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

2. ANALYTICAL DATA

TLC: \(R_f = 0.21\) (Dichloromethane:Methanol [9:1])
HPLC: Shows 100% purity
\(^1\)H 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
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

**Description:**
Potent and selective inhibitor of GABA uptake by GAT-1 (IC\textsubscript{50} 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:** C\textsubscript{21}H\textsubscript{22}N\textsubscript{2}O\textsubscript{3}·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:**

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