

**Product Name:** N20C hydrochloride

**Catalog No.:** 2213

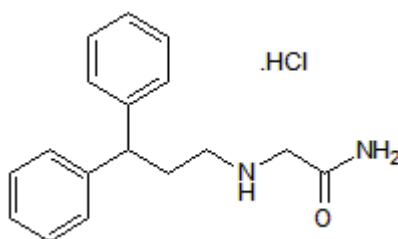
**Batch No.:** 1

CAS Number: 1177583-87-7

IUPAC Name: 2-[(3,3-Diphenylpropyl)amino]acetamide hydrochloride

**1. PHYSICAL AND CHEMICAL PROPERTIES**

**Batch Molecular Formula:** C<sub>17</sub>H<sub>20</sub>N<sub>2</sub>O.HCl  
**Batch Molecular Weight:** 304.82  
**Physical Appearance:** White solid  
**Solubility:** water to 100 mM  
**Storage:** Desiccate at +4°C  
**Batch Molecular Structure:**



**2. ANALYTICAL DATA**

**TLC:** R<sub>f</sub> = 0.5 (Dichloromethane:Methanol [20:1])  
**Melting Point:** Between 176 - 181°C  
**HPLC:** Shows >98% purity  
**<sup>1</sup>H NMR:** Consistent with structure

	Carbon Hydrogen Nitrogen		
	Carbon	Hydrogen	Nitrogen
Theoretical	66.99	6.94	9.19
Found	66.9	7	9.16

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

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**Description:**

Selective, non-competitive NMDA receptor antagonist ( $IC_{50} = 5 \mu M$ ); binds to the receptor-associated ion channel and prevents glutamate-induced  $Ca^{2+}$  influx. Displays neuroprotective activity in vivo. Brain-penetrant.

**Physical and Chemical Properties:**

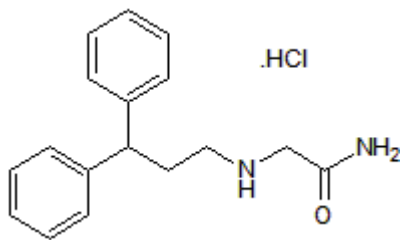
Batch Molecular Formula:  $C_{17}H_{20}N_2O \cdot HCl$

Batch Molecular Weight: 304.82

Physical Appearance: White solid

**Minimum Purity:** >98%

**Batch Molecular Structure:**



**References:**

**Planells-Cases** *et al* (2002) A novel N-methyl-D-aspartate receptor open channel blocker with in vivo neuroprotectant activity. *J.Pharmacol.Exp.Ther.* **302** 163. PMID: 12065713.

**Storage:** Desiccate at +4°C

**Solubility & Usage Info:**

water 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.

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