

**Product Name:** AMN 082 dihydrochloride

**Catalog No.:** 2385

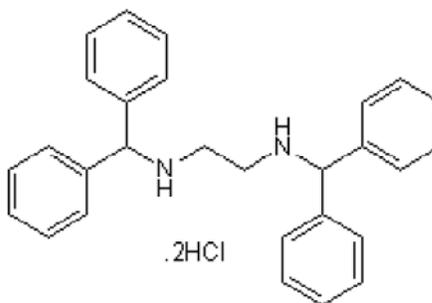
**Batch No.:** 2

CAS Number: 97075-46-2

IUPAC Name: *N,N'*-Bis(diphenylmethyl)-1,2-ethanediamine dihydrochloride

**1. PHYSICAL AND CHEMICAL PROPERTIES**

**Batch Molecular Formula:** C<sub>28</sub>H<sub>28</sub>N<sub>2</sub>.2HCl  
**Batch Molecular Weight:** 465.45  
**Physical Appearance:** White solid  
**Solubility:** DMSO to 100 mM  
 water to 2 mM with gentle warming  
**Storage:** Desiccate at +4°C  
**Batch Molecular Structure:**



**2. ANALYTICAL DATA**

**HPLC:** Shows 99.2% purity  
**<sup>1</sup>H NMR:** Consistent with structure  
**Mass Spectrum:** Consistent with structure  
**Microanalysis:**

	Carbon	Hydrogen	Nitrogen
Theoretical	72.25	6.5	6.02
Found	72.06	6.66	6.14

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

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**Description:**

AMN 082 dihydrochloride is the first selective mGlu<sub>7</sub> agonist. Potently inhibits cAMP accumulation and stimulates GTPγS binding in recombinant cells and on membranes expressing mGlu<sub>7</sub> (EC<sub>50</sub> = 64 - 290 nM). Selective over other mGluR subtypes and selected ionotropic glutamate receptors up to 10 μM. Acts via a novel allosteric site and is orally active and brain penetrant. Reduces haloperidol-induced catalepsy in rats. View important information regarding the usage of

**Physical and Chemical Properties:**

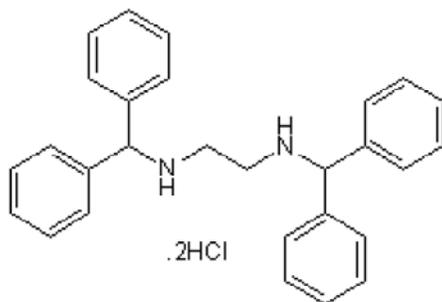
Batch Molecular Formula: C<sub>28</sub>H<sub>28</sub>N<sub>2</sub>.2HCl

Batch Molecular Weight: 465.45

Physical Appearance: White solid

**Minimum Purity:** ≥99%

**Batch Molecular Structure:**



**Storage:** Desiccate at +4°C

**Solubility & Usage Info:**

DMSO to 100 mM

water to 2 mM with gentle warming

**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:**

**Greco et al** (2010) Metabotropic glutamate 7 receptor subtype modulates motor symptoms in rodent models of Parkinson's disease. *J.Pharmacol.Exp.Ther.* **332** 1064. PMID: 19940105.

**Flor et al** (2005) AMN082, the first selective mGluR7 agonist: activation of receptor signaling via an allosteric site in the transmembrane domain modulates stress parameters *in vivo*. *Neuropharmacology* **49** (Suppl. 1) 244.

**Mitsukawa et al** (2005) A selective metabotropic glutamate receptor 7 agonist: Activation of receptor signaling via an allosteric site modulates stress parameters *in vivo*. *Proc.Natl.Acad.Sci.USA* **102** 18712.

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