

Product Name: AMN 082 dihydrochloride

Catalog No.: 2385

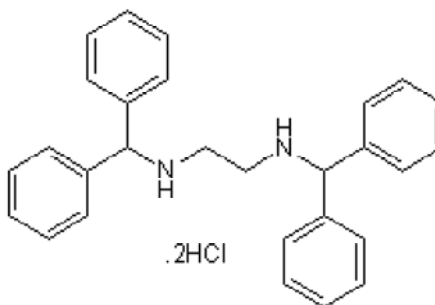
Batch No.: 2

CAS Number: 97075-46-2

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

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₈H₂₈N₂.2HCl
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
¹H 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:

The first selective mGlu₇ agonist. Potently inhibits cAMP accumulation and stimulates GTPγS binding in recombinant cells and on membranes expressing mGlu₇ (EC₅₀ = 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 AMN 082 dihydrochloride.

Physical and Chemical Properties:

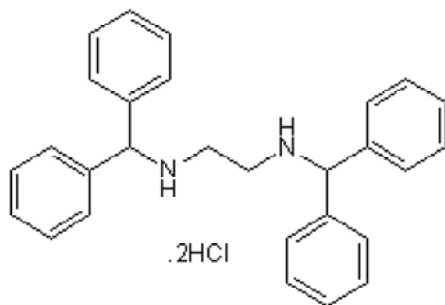
Batch Molecular Formula: C₂₈H₂₈N₂.2HCl

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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