

Product Name: Remacemide hydrochloride

Catalog No.: 1622

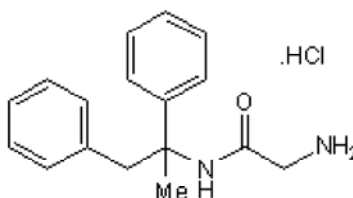
Batch No.: 1

CAS Number: 111686-79-4

IUPAC Name: 2-Amino-N-(1-methyl-1,2-diphenylethyl)acetamide hydrochloride

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₇H₂₀N₂O.HCl
Batch Molecular Weight: 304.82
Physical Appearance: White solid
Solubility: water to 100 mM
 phosphate buffered saline to 50 mM
Storage: Desiccate at RT
Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.25 (Dichloromethane:Methanol [9:1])
Melting Point: Between 251 - 252°C
HPLC: Shows >99.5% purity
¹H NMR: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	66.99	6.94	9.19
Found	66.85	6.96	9.16

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

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Description:

Remacemide hydrochloride is a non-competitive NMDA receptor antagonist; blocks ion channel and allosteric modulatory site (IC₅₀ = 8 - 68 mM). Remacemide hydrochloride is anticonvulsant in vivo and metabolizes to a more potent desglycine analog. Weakly blocks voltage-dependent Na⁺ channels (IC₅₀ = 161 mM). In an animal model of Huntington's disease, extends survival and delays disease; this effect is more pronounced when combined with Coenzyme Q10 (Cat. No. 3003)

Physical and Chemical Properties:

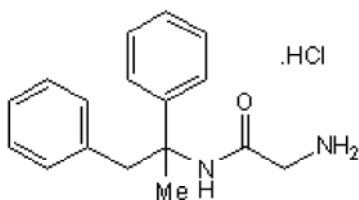
Batch Molecular Formula: C₁₇H₂₀N₂O.HCl

Batch Molecular Weight: 304.82

Physical Appearance: White solid

Minimum Purity: ≥99%

Batch Molecular Structure:



References:

Ferrante et al (2002) Therapeutic effects of coenzyme Q10 and remacemide in transgenic mouse models of Huntington's disease. *J.Neurosci.* **22** 1592. PMID: 11880489.

Santangeli et al (2002) Na⁺ channel effects of remacemide and desglycyl-remacemide in rat cortical synaptosomes. *Eur.J.Pharmacol.* **438** 63. PMID: 11906711.

Subramaniam et al (1996) Block of the N-MthD.-aspartate receptor by remacemide and its des-glycine metabolite. *J.Pharmacol.Exp.Ther.* **276** 161. PMID: 8558426.

Storage: Desiccate at RT

Solubility & Usage Info:

water to 100 mM

phosphate buffered saline to 50 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.

Licensing Information:

Sold with the permission of AstraZeneca UK Ltd.

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