

Certificate of Analysis

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Product Name: MDL 12330A hydrochloride

Catalog No.: 1436

Batch No.: 2

CAS Number: 40297-09-4

IUPAC Name: (±)-N-[(1*R**,2*R**)-2-Phenylcyclopentyl]-azacyclotridec-1-en-2-amine hydrochloride

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₃H₃₆N₂.HCl.¼H₂O

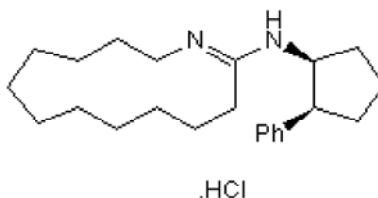
Batch Molecular Weight: 381.51

Physical Appearance: Off-white solid

Solubility: DMSO to 20 mM
ethanol to 20 mM

Storage: Store at +4°C

Batch Molecular Structure:



2. ANALYTICAL DATA

Melting Point: At 148 - 152°C

HPLC: Shows 99.7% purity

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	72.41	9.91	7.34
Found	72.47	9.73	7.16

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

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Description:

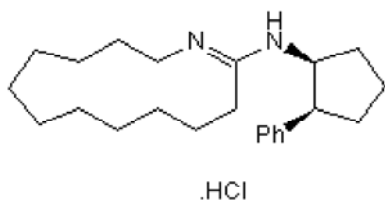
Inhibitor of adenylyl cyclase. Also inhibits cAMP and cGMP phosphodiesterases, and blocks slow extracellular and store-operated Ca²⁺ entry into cells.

Physical and Chemical Properties:

Batch Molecular Formula: C₂₃H₃₆N₂.HCl.½H₂O
 Batch Molecular Weight: 381.51
 Physical Appearance: Off-white solid

Minimum Purity: >98%

Batch Molecular Structure:



Storage: Store at +4°C

Solubility & Usage Info:

DMSO to 20 mM
 ethanol to 20 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:

van Rossum et al (2000) Ca²⁺ entry mediated by store depletion, S-nitrosylation, and TRP3 channels. Comparison of coupling and function. *J.Biol.Chem.* **275** 28562. PMID: 10878007.

Hunt and Evans (1980) RMI 12330A, an inhibitor of cyclic nucleotide phosphodiesterases and adenylyl cyclase in kidney preparations. *Biochim.Biophys.Acta* **613** 499. PMID: 6256001.

Guellaen et al (1977) RMI 12330 A, an inhibitor of adenylyl cyclase in rat liver. *Biochim.Biophys.Acta* **484** 465. PMID: 911855.

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