

Certificate of Analysis

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Product Name: 4-Chlorophenylguanidine hydrochloride

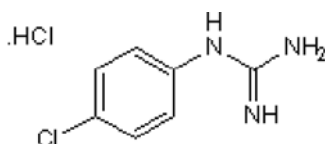
Catalog No.: 0442

Batch No.: 3

CAS Number: 14279-91-5

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₇H₈ClN₃.HCl.
Batch Molecular Weight: 206.07
Physical Appearance: White solid
Solubility: water to 100 mM
Storage: Store at RT
Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 97.6% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	40.8	4.4	20.39
Found	40.83	4.43	20.26

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

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Product Name: 4-Chlorophenylguanidine hydrochloride

Catalog No.: 0442

Batch No.: 3

CAS Number: 14279-91-5

Description:

Potent and specific inhibitor of urokinase. Also a positive allosteric modulator at acid sensing ion channel 3 (ASIC3), which increases its pH sensitivity.

Physical and Chemical Properties:

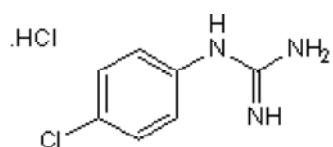
Batch Molecular Formula: C₇H₈ClN₃.HCl.

Batch Molecular Weight: 206.07

Physical Appearance: White solid

Minimum Purity: ≥98%

Batch Molecular Structure:



Storage: Store at RT

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.

References:

Agharkar & Gonzales (2017) 4-Chlorophenylguanidine is an ASIC3 agonist and positive allosteric modulator. *J.Pharmacol.Sci.* **133** 184. PMID: 28259560.

Yang *et al* (1990) Selective inhibition of urok. by substituted phenylguanidines: quantitative structure-activity relationship analyses. *J.Med.Chem.* **33** 2956. PMID: 2231595.

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