

Product Name: 4-Chlorophenylguanidine hydrochloride

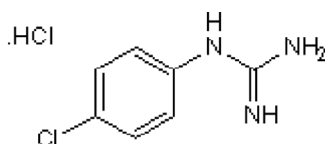
Catalog No.: 0442

Batch No.: 3

CAS Number: 14279-91-5

## 1. PHYSICAL AND CHEMICAL PROPERTIES

**Batch Molecular Formula:** C<sub>7</sub>H<sub>8</sub>ClN<sub>3</sub>.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  
**<sup>1</sup>H 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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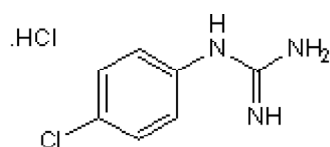
**Description:**

4-Chlorophenylguanidine hydrochloride is a potent 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: C<sub>7</sub>H<sub>8</sub>ClN<sub>3</sub>.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. \*Unless contradicted by product-specific protocols or instructions, our standard recommendations apply:

**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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**bio-techne.com**

info@bio-techne.com

techsupport@bio-techne.com

**North America**

Tel: (800) 343 7475

**China**

info.cn@bio-techne.com

Tel: +86 (21) 52380373

**Europe Middle East Africa**

Tel: +44 (0)1235 529449

**Rest of World**

www.tocris.com/distributors

Tel:+1 612 379 2956