

Certificate of Analysis

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Product Name: GMQ hydrochloride

Catalog No.: 5028

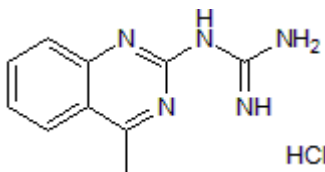
Batch No.: 1

CAS Number: 5361-15-9

IUPAC Name: *N*-(4-Methyl-2-quinazolinyl)-guanidine hydrochloride

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₀H₁₁N₅·HCl·¼H₂O
Batch Molecular Weight: 242.19
Physical Appearance: Off-white solid
Solubility: DMSO to 50 mM
 water to 5 mM with gentle warming
Storage: Store at +4°C
Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 99.4% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure

Microanalysis:

| | Carbon | Hydrogen | Nitrogen | Chlorine |
|-------------|--------|----------|----------|----------|
| Theoretical | 49.59 | 5.2 | 28.92 | 14.64 |
| Found | 49.49 | 4.96 | 29.27 | |

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

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IUPAC Name: *N*-(4-Methyl-2-quinazoliny)-guanidine hydrochloride

Description:

Selective opener of acid-sensing ion channel 3 (ASIC3) at pH 7.4. Alters the pH dependence of ASIC1a and ASIC1b; does not affect the activation curve of ASIC2a.

Physical and Chemical Properties:

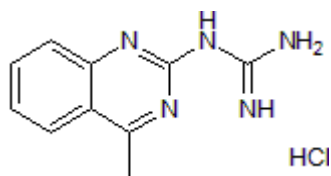
Batch Molecular Formula: C₁₀H₁₁N₅.HCl.¼H₂O

Batch Molecular Weight: 242.19

Physical Appearance: Off-white solid

Minimum Purity: >98%

Batch Molecular Structure:



Storage: Store at +4°C

Solubility & Usage Info:

DMSO to 50 mM

water to 5 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:

Li et al (2010) ASIC3 channels integrate agmatine and multiple inflammatory signals through the nonproton ligand sensing domain. *Mol.Pain* **6** 88. PMID: 21143836.

Alijevic and Kellenberger (2012) Subtype-specific modulation of acid-sensing ion channel (ASIC) function by 2-guanidine-4-methylquinazoline. *J.Biol.Chem.* **287** 36059. PMID: 22948146.

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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