

Product Name: EIPA

Catalog No.: 3378

Batch No.: 2

CAS Number: 1154-25-2

IUPAC Name: 3-Amino-*N*-(aminoiminomethyl)-6-chloro-5-[ethyl(1-methylethyl)amino]-2-pyrazinecarboxamide

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₁H₁₈ClN₇O.¼H₂O

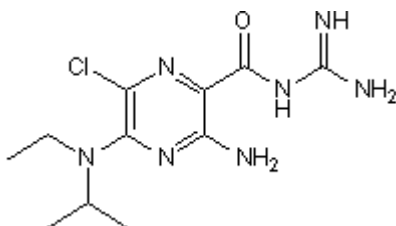
Batch Molecular Weight: 304.26

Physical Appearance: Yellow solid

Solubility: DMSO to 100 mM
1eq. HCl to 50 mM

Storage: Store at +4°C

Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.15 (Dichloromethane:Methanol [96:4])

HPLC: Shows 99.4% purity

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	43.42	6.13	32.22
Found	43.76	6.16	32.05

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Description:

TRPP3 channel inhibitor (IC_{50} = 10.5 μ M). Inhibits the Na⁺/H⁺ exchanger (NHE). Derivative of amiloride (Cat. No. 0890).

Physical and Chemical Properties:

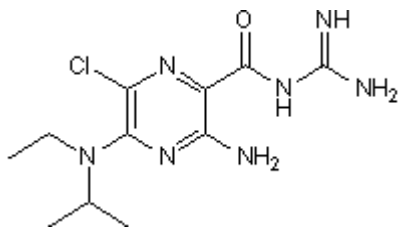
Batch Molecular Formula: C₁₁H₁₈ClN₇O.¼H₂O

Batch Molecular Weight: 304.26

Physical Appearance: Yellow solid

Minimum Purity: >98%

Batch Molecular Structure:



Storage: Store at +4°C

Solubility & Usage Info:

DMSO to 100 mM

1eq. HCl 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.

References:

Dai *et al* (2007) Inhibition of TRPP3 channel by amiloride and analogs. *Mol.Pharmacol.* **72** 1576. PMID: 17804601.

Horinouchi *et al* (2008) Functional role of Na⁺/H⁺ exchanger in Ca²⁺ influx mediated via human endothelin type A receptor stably expressed in Chinese hamster ovary cells. *J.Pharm.Sci.* **107** 456. PMID: 18678984.

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