

**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:** C<sub>11</sub>H<sub>18</sub>ClN<sub>7</sub>O.¼H<sub>2</sub>O

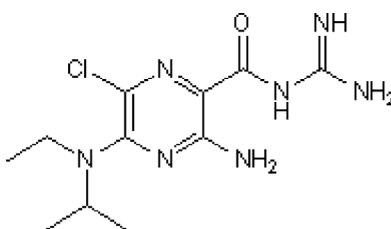
**Batch Molecular Weight:** 304.26

**Physical Appearance:** Yellow solid

**Solubility:** DMSO to 100 mM

**Storage:** Store at +4°C

**Batch Molecular Structure:**



**2. ANALYTICAL DATA**

**TLC:** R<sub>f</sub> = 0.15 (Dichloromethane:Methanol [96:4])

**HPLC:** Shows 99.4% purity

**<sup>1</sup>H 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:**

EIPA is a TRPP3 channel inhibitor (IC<sub>50</sub> = 10.5 μM). Inhibits the Na<sup>+</sup>/H<sup>+</sup> exchanger (NHE). Derivative of amiloride (Cat. No. 0890).

**Physical and Chemical Properties:**

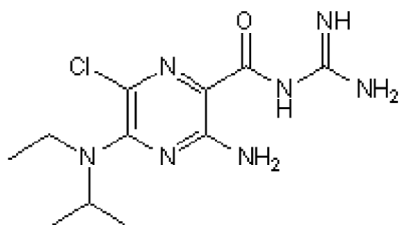
Batch Molecular Formula: C<sub>11</sub>H<sub>18</sub>ClN<sub>7</sub>O.¼H<sub>2</sub>O

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

**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:**

**Horinouchi et al** (2008) Functional role of Na<sup>+</sup>/H<sup>+</sup> exchanger in Ca<sup>2+</sup> influx mediated via human endothelin type A receptor stably expressed in Chinese hamster ovary cells. *J.Pharm.Sci.* **107** 456. PMID: 18678984.

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

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