

Product Name: EIPA

Catalog No.: 3378

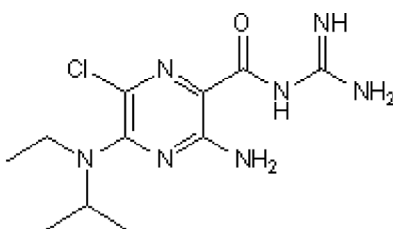
Batch No.: 3

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.
Batch Molecular Weight: 299.76
Physical Appearance: Yellow solid
Solubility: DMSO to 100 mM
Storage: Store at +4°C
Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 99.7% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	44.07	6.05	32.71
Found	44.23	6.16	33

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

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Description:

EIPA is a TRPP3 channel inhibitor (IC₅₀ = 10.5 μM). Inhibits the Na⁺/H⁺ exchanger (NHE). Derivative of amiloride (Cat. No. 0890).

Physical and Chemical Properties:

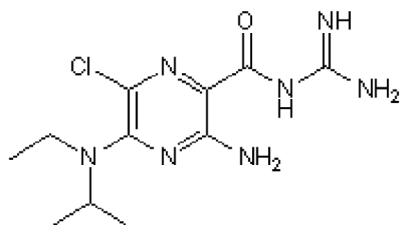
Batch Molecular Formula: C₁₁H₁₈ClN₇O.

Batch Molecular Weight: 299.76

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⁺/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.

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

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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
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