1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: $\text{C}_{11}\text{H}_{18}\text{ClN}_{7}\text{O}_{.1/4}\text{H}_{2}\text{O}$

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:

![Molecular Structure Image]

2. ANALYTICAL DATA

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

HPLC: Shows 99.4% purity

$^1\text{H}$ NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

<table>
<thead>
<tr>
<th></th>
<th>Theoretical</th>
<th>Found</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Carbon</td>
<td>43.42</td>
<td>43.76</td>
<td></td>
</tr>
<tr>
<td>Hydrogen</td>
<td>6.13</td>
<td>6.16</td>
<td></td>
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<tr>
<td>Nitrogen</td>
<td>32.22</td>
<td>32.05</td>
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</tbody>
</table>
Product Name: EIPA

CAS Number: 1154-25-2

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

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

Physical and Chemical Properties:
Batch Molecular Formula: C_{11}H_{19}ClN_{6}O.\frac{1}{4}H_{2}O
Batch Molecular Weight: 304.26
Physical Appearance: Yellow solid

Minimum Purity: >98%

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: