1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: \( C_{14}H_{23}N_5O.HCl.\frac{1}{2}H_2O \)

Batch Molecular Weight: 322.84

Physical Appearance: White solid

Solubility:
- water to 100 mM
- ethanol to 100 mM
- DMSO to 100 mM

Storage: Store at RT

Batch Molecular Structure:

![Molecular Structure](image)

(and enantiomer)

2. ANALYTICAL DATA

TLC: \( R_f = 0.43 \) (Chloroform:Methanol [12:88])

HPLC: Shows 99.9% purity

\(^1\)H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

<table>
<thead>
<tr>
<th></th>
<th>Carbon</th>
<th>Hydrogen</th>
<th>Nitrogen</th>
</tr>
</thead>
<tbody>
<tr>
<td>Theoretical</td>
<td>52.09</td>
<td>7.81</td>
<td>21.69</td>
</tr>
<tr>
<td>Found</td>
<td>52.17</td>
<td>7.66</td>
<td>21.85</td>
</tr>
</tbody>
</table>
Product Name: EHNA hydrochloride  
Catalog No.: 1261  
Batch No.: 7

CAS Number: 58337-38-5  
IUPAC Name: erythro-9-(2-Hydroxy-3-nonyl)adenine hydrochloride

Description:
Selective inhibitor of cGMP-stimulated phosphodiesterase (PDE2) \( (IC_{50} = 0.8 \text{ - } 4 \text{ mM}) \). Also a potent inhibitor of adenosine deaminase. Suppresses spontaneous differentiation of human ESCs in feeder-free conditions. Also prevents directed neuronal differentiation.

Physical and Chemical Properties:
Batch Molecular Formula: \( C_{14}H_{20}N_{2}O.HCl.\frac{1}{2}H_{2}O \)
Batch Molecular Weight: 322.84
Physical Appearance: White solid
Minimum Purity: >98%

Storage: Store at RT

Solubility & Usage Info:
- water to 100 mM
- ethanol to 100 mM
- 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. 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:
