

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

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₄H₂₃N₅O.HCl.½H₂O

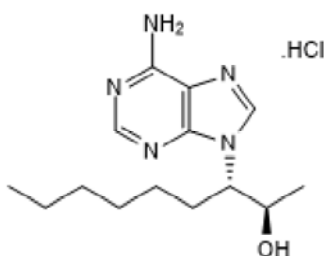
Batch Molecular Weight: 322.84

Physical Appearance: White solid

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

Storage: Store at RT

Batch Molecular Structure:



(and enantiomer)

2. ANALYTICAL DATA

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

HPLC: Shows 99.3% purity

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	52.09	7.81	21.69
Found	52.17	7.66	21.85

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CAS Number: 58337-38-5

IUPAC Name: erythro-9-(2-Hydroxy-3-nonyl)adenine hydrochloride

Description:

EHNA hydrochloride is a selective inhibitor of cGMP-stimulated phosphodiesterase (PDE2) ($IC_{50} = 0.8 - 4 \mu M$). 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:

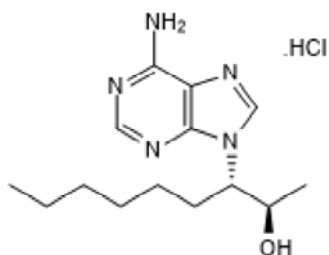
Batch Molecular Formula: $C_{14}H_{23}N_5O \cdot HCl \cdot \frac{1}{2}H_2O$

Batch Molecular Weight: 322.84

Physical Appearance: White solid

Minimum Purity: $\geq 98\%$

Batch Molecular Structure:



(and enantiomer)

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:

Michie *et al* (1996) Rapid regulation of PDE-2 and PDE-4 cyclic AMP phosphodiesterase activity following ligation of the T-cell antigen receptor on thymocytes: analysis using the selective inhibitors erythro-9-(2-hydroxy-3-nonyl)-adenine (EHNA) and rolipram. *Cell.Signal.* **8** 97. PMID: 8730511.

Podzuweit *et al* (1995) Isozyme selective inhibition of cGMP-stimulated cyclic nucleotide phosphodiesterases by erythro-9-(2-hydroxy-3-nonyl)adenine. *Cell.Signal.* **7** 733. PMID: 8519602.

Bessodes *et al* (1982) Effect of chirality in erythro-9-(2-hydroxy-3-nonyl) adenine (EHNA) on adenosine deaminase inhibition. *Biochem.Pharmacol.* **31** 879. PMID: 7082355.

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