EHNA (hydrochloride)
Item No. 13352

CAS Registry No.: 58337-38-5
Formal Name: (αR,βS)-rel-6-amino-β-hexyl-α-methyl-9H-purine-9-ethanol, monohydrochloride
Synonyms: erythro-9-(2-Hydroxy-3-nonyl)adenine, NSC 263164
MF: C14H23N5O • HCl
FW: 313.8
Purity: ≥98%
Stability: ≥2 years at -20°C
Supplied as: A crystalline solid
UV/Vis: λmax: 210, 261 nm

Laboratory Procedures
For long term storage, we suggest that EHNA (hydrochloride) be stored as supplied at -20°C. It should be stable for at least two years.
EHNA (hydrochloride) is supplied as a crystalline solid. A stock solution may be made by dissolving the EHNA (hydrochloride) in the solvent of choice. EHNA (hydrochloride) is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide (DMF), which should be purged with an inert gas. The solubility of EHNA (hydrochloride) in ethanol is approximately 20 mg/ml and approximately 30 mg/ml in DMSO and DMF.
EHNA (hydrochloride) is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, EHNA (hydrochloride) should first be dissolved in DMSO and then diluted with the aqueous buffer of choice. EHNA (hydrochloride) has a solubility of approximately 0.5 mg/ml in a 1:1 solution of DMSO/PBS (pH 7.2) using this method.
We do not recommend storing the aqueous solution for more than one day.
EHNA is a reversible adenosine deaminase inhibitor (IC50 = 1.2 μM in human red blood cells) that also selectively inhibits the cGMP-specific phosphodiesterase (PDE2) (IC50 = 0.8 and 2 μM from human and porcine myocardium, respectively, 3.5 μM in rat hepatocyte, and 5.5 μM in human platelet).1,2 Comparatively, EHNA is much less potent at inhibiting PDE1, PDE4, or PDE5 (IC50 > 100 μM).1 EHNA has been used to evaluate cardioprotective and neuroprotective effects during ischemia, to study the role of cAMP/cGMP signaling, and to maintain pluripotency/prevent differentiation of human embryonic stem cells.3-5

References

Related Products
For a list of related products please visit: www.caymanchem.com/catalog/13352

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**SAFETY DATA**

This material should be considered hazardous until information to the contrary becomes available. Do not ingest, swallow, or inhale. Do not get in eyes, on skin, or on clothing. Wash thoroughly after handling. This information contains some, but not all, of the information required for the safe and proper use of this material. Before use, the user must review the complete Safety Data Sheet, which has been sent via email to your institution.

**WARRANTY AND LIMITATION OF REMEDY**

Cayman Chemical Company makes no warranty or guarantee of any kind, whether written or oral, expressed or implied, including without limitation, any warranty of fitness for a particular purpose, suitability and marketability, which extends beyond the description of the chemicals herein. Cayman warrants only to the original customer that the material will conform to specifications in the time of delivery.

Cayman will carry out its delivery obligations with due care and skill. Thus, in no event will Cayman have any obligation or liability, whether in tort (including negligence) or in contract, for any direct, indirect, incidental or consequential damages, even if Cayman is informed about their possible existence.

The limitation of liability does not apply in the case of intentional acts or negligence of Cayman, its directors or its employees.

Buyer’s exclusive remedy and Cayman’s sole liability hereunder shall be limited to a refund of the purchase price, or at Cayman’s option, the replacement, at no cost to Buyer, of all material that does not meet our specifications.

Said refund or replacement is conditioned on Buyer giving written notice to Cayman within thirty (30) days after arrival of the material at its destination. Failure of Buyer to give said notice within thirty (30) days shall constitute a waiver by Buyer of all claims hereunder with respect to said material.

For further details, please refer to our Warranty and Limitation of Remedy located on our website and in our catalog.