

Catalog	Unit
TBI2438 -10MG	10 mg
TBI2438 -50MG	50 mg

Product Details

Formal Name: Erythro-9-(2-hydroxy-3-nonyl) adenine, hydrochloride.

Synonyms: NSC 263164.

Molecular Formula: C₁₄H₂₃N₅O • HCl.

Formula Weight: 313.8.

CAS Number: 51350-19-7.

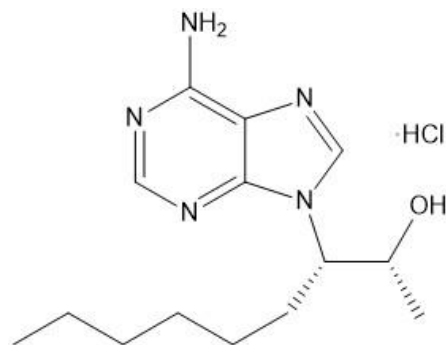
Purity: ≥98%

Formulation: Powder

Solubility: Soluble in Water (up to 25 mg/ml), DMSO, and other organic solvents.

Storage: -20°C

Stability: ≥ 2 years



Applications

Phosphodiesterase 2 (PDE2) inhibitor.
Adenosine deaminase (ADA).

Functions

EHNA inhibits phosphodiesterase 2 (PDE2) (IC₅₀ = 0.8 – 5.5 μM in a variety of tissues and species) over PDE1, PDE3, or PDE4 (IC₅₀ values > 100 μM). It also inhibits adenosine deaminase (ADA), IC₅₀ = 1.2 and 1.5 μM in human RBCs and astrocytoma cells, respectively, which may be responsible for its ability to induce apoptosis in malignant pleural mesothelioma cell lines. Because it blocks breakdown of adenosine to inosine and hypoxanthine, EHNA prevents formation of free radical substrates, protecting against cardiac reperfusion-mediated injury. It inhibits differentiation and maintains expression of pluripotency markers in hESCs, but not through inhibition of PDEs or ADA.

Application Procedures

EHNA can be first dissolved in DMSO, dimethyl formamide (DMF), then diluted to aqueous buffer. It can be directly dissolved in water up to 20mg/mL. The solution can be stored at -20°C for up to 2 weeks.

Relative Products

TBS2091-100:	Homocysteine Assay (Colorimetric / Fluorometric)
TBS2092-100:	Enolase Activity Assay (Colorimetric / Fluorometric)
TBS2094-100:	Acetaldehyde Assay Kit (Fluorometric)
TBS2079-100:	AMP Assay ((Colorimetric/Fluorometric)
TBS2081-100:	Cyclic AMP (cAMP) Activity Fluorometric Assay
TBS2082-100:	cAMP Phosphodiesterase Activity Fluorometric Assay
TBS2083-100:	Adenosine Fluorometric Assay

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