
Product Data Sheet

Product Name: EHNA HCl

Cat. No.: GB40191

Chemical Properties

Cas. No. 51350-19-7

Formula $C_{14}H_{28}N_5O \cdot HCl$

M.Wt 318.87

 H_2O : 100 mg/mL (318.64 mM; Need ultrasonic); DMSO :

Solubility 83.33 mg/mL (265.53 mM; ultrasonic and warming and heat Storage to 60°C)

General tips For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.

Structure **Background**

EHNA (51350-19-7) inhibits phosphodiesterase 2 (PDE2) ($IC_{50} = 0.8 - 5.5 \mu M$ in a variety of tissues and species) over PDE1, PDE3, or PDE4 (IC_{50} values $> 100 \mu M$). It also inhibits adenosine deaminase (ADA), $IC_{50} = 1.2$ and $1.5 \mu M$ 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.

Caution: Product has not been fully validated for medical applications. For research use only.

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