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# DATASHEET

EHNA hydrochloride

#### **Product overview**

EHNA hydrochloride Name

Cat No HB3540 **Biological action** Inhibitor >98% **Purity** 

Description Potent adenosine deaminase and PDE2 inhibitor. Supresses spontaneous hESC differentiation. Also

maintains pluripotency of hESCs in the absence of exogenous cytokines.

# **Biological Data**

**Biological description** Potent adenosine deaminase (ADA) and PDE2 inhibitor ( $K_i = 1.6 \text{ nM}$  at ADA and IC<sub>50</sub> values are 0.8

and 4 MM at human and porcine PDE2 respectively. Reversibly supresses spontaneous hESCs differentiation. Also acts as a strong blocker of directed neuronal differentiation. Also maintains

pluripotency of hESCs in the absence of exogenous cytokines.

## Solubility & Handling

Storage instructions

Solubility overview **Important** 

Room temperature

Soluble in water (100mM) or DMSO (100mM)

This product is for RESEARCH USE ONLY and is not intended for therapeutic or diagnostic use. Not

for human or veterinary use.

### **Chemical Data**

**Chemical name** Molecular Weight **Chemical structure**  erythro-9-(2-Hydroxy-3-nonyl)adenin e hydrochloride

313.83

Molecular Formula  $C_{14}H_{23}N_5O.HCI$ 58337-38-5 **CAS Number PubChem identifier** 11056106

NC1=NC=NC2=C1N=CN2[C@@H](CCCCCC)[C@H](O)C.Cl **SMILES** 

InChiKey VVDXNJRUNJMYOZ-DHXVBOOMSA-N

#### References

Probing the active site of adenosine deaminase by a pH responsive fluorescent competitive inhibitor.

Caiolfa et al (1998) Biophys Chem 70(1) **PubMedID** 9474762

#### human embryonic stem cells.

Burton et al (2010) Biochem J 432(3)

PubMedID 20923411

Inhibition of adenosine deaminase by erythro-9-(2-hydroxy-3-nonyl)adenine (EHNA) mimics the effect of inescapable shock on escape learning in rats.

Woodson et al (1998) Behav Neurosci 112(2) **PubMedID** 9588486