N4-Hydroxycytidine

ALTERNATE NAMES: EIDD-1931; HNC; Uridine, 4-oxime; Beta-D-N4-hydroxycytidine; 1-[(2R,3R,4S,5R)-3,4-dihydroxy-5-(hydroxymethyl)oxolan-2-yl]-4-(hydroxyamino)pyrimidin-2-one; 1-((2R,3R,4S,5R)-3,4-Dihydroxy-5-hydroxymethyl-tetrahydro-furan-2-yl)-4-hydroxyamino-1H-pyrimidin-2-one

CATALOG #: B3039-5 5 mg  B3039-25 25 mg

STRUCTURE: [Structure image]

MOLECULAR FORMULA: C₉H₁₃N₃O₆

MOLECULAR WEIGHT: 259.22

CAS NUMBER: 3258-02-4

APPEARANCE: White solid

PURITY: ≥98%

SOLUBILITY: ~20 mg/ml in DMSO ~10 mg/ml in DMF ~10 mg/ml in PBS, pH7.2

DESCRIPTION: N4-Hydroxycytidine is a ribonucleoside analog with broad-spectrum antiviral activity. The prodrug of N4-hydroxycytidine is EIDD-2801. N4-Hydroxycytidine is active against influenza, Ebola, Severe Acute Respiratory Syndrome Coronavirus (SARS-CoV) and Venezuelan equine encephalitis virus (VEEV). It inhibits replication of SARS-CoV-2 and Middle East respiratory syndrome coronavirus (MERS-CoV) in Calu-3 2B4 cells with IC₅₀ values of 0.08 μM and 0.15 μM respectively. N4-Hydroxycytidine (100 and 400 mg/kg twice per day) reduces lung viral titers in a mouse model of Respiratory Syncytial Virus (RSV) infection.

STORAGE TEMPERATURE: -20°C


HANDLING: Do not take internally. Wear gloves and mask when handling the product! Avoid contact by all modes of exposure.


DISCLAIMER: FOR RESEARCH USE ONLY! Not to be used on humans.