Azaribine

Cat. No.: HY-B1537

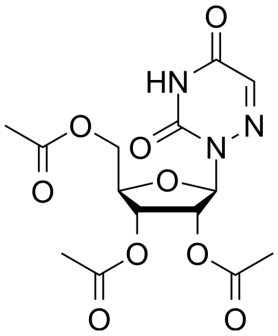
CAS No.: 2169-64-4

Molecular Formula: $C_{14}H_{17}N_3O_9$

Molecular Weight: 371.3

Storage: -20°C, stored under nitrogen

* In solvent : -80°C, 6 months; -20°C, 1 month (stored under nitrogen)



BIOLOGICAL ACTIVITY

Description

Azaribine (2',3',5'-Tri-O-acetyl-6-azauridine) is a potent orotidine monophosphate decarboxylase (OMPD) inhibitor. Azaribine is an antiviral inhibitor of several RNA viruses and inhibits viral genome replication and gene transcription. Azaribine shows broad-spectrum antiviral activity (EC_{50}=3.80 nM-1.73 μM against influenza A and B viruses; EC_{50}=1.62 μM against ZIKV Paraiba). Azaribine, a triacetate salt of Azauridine, has the potential for psoriasis research[1][2].

In Vitro

Azaribine (2',3',5'-Tri-O-acetyl-6-azauridine; 0-2 μM; 48 h) has cytotoxicity on MDCK cells (MTT: CC_{50}=19.66 μM)[1].
Azaribine shows a potent inhibitory effect on BIRFLU multiplication (MDCK cells: EC_{50}=0.29 μM; A549 cells: EC_{50}=0.55 μM)[1].
Azaribine shows against seasonal H1N1 and H3N2 IAVs and IBV during posttreatment in MDCK cells with EC_{50} of 0.60 μM, 0.77 μM, 0.80 μM[1].
Azaribine is against NC H1N1 during posttreatment in 16HBE cells (EC_{50}=1.58 μM)[1].
MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Cell Cytotoxicity Assay[1]

Cell Line:	MDCK cells
Concentration:	0-2 μM
Incubation Time:	48 h
Result:	Had cytotoxicity on MDCK cells (CC_{50}=19.66 μM).

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

Tel: 609-228-6898 Fax: 609-228-5909 E-mail: tech@MedChemExpress.com
Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA