



Formula: C₁₁H₁₅N₃O₆

MW: 285.26

CAS: 3768-18-1

MDL NUMBER: MFCD00546441

IUPAC: N-{1-[3,4-dihydroxy-5-(hydroxymethyl)oxolan-2-yl]-2-oxohydroypyrimidin-4-yl}acetamide

Smiles: CC(=O)Nc1nc(cc1)Nc2c(O)c(O)CO2

Nucleoside analog

REFERENCE: Thomas G, et al. N4-Acetylcytidine. A previously unidentified labile component of the small subunit of eukaryotic ribosomes. *J Biol Chem.* 1978 Feb 25;253(4):1101-5 Stern L, Schulman LH. The role of the minor base N4-acetylcytidine in the function of the *Escherichia coli* noninitiator methionine transfer RNA. *J Biol Chem.* 1978 Sep 10;253(17):6132-9

SOURCE: Present in yeast 17 S rRNA and chicken liver 18 S rRNA

ACCEPTORS: 6

DONORS: 4

ROTATION BONDS: 5

N+O: 9

Chiral Centers: 4

LogP: -3.17

LogS: -1.97

LIPINSKI: 4

Synonyms: 4-Acetyl-1-(beta-D-ribofuranosyl)cytosine;ACETYLCYTOSINE;N4-ACETYLCYTIDINE;4-Acetylcytidine;Acetamide, N-(1,2-dihydro-2-oxo-1-beta-D-ribofuranosyl-4-pyrimidinyl)-;Acetylcytidine;n-acetyl-cytidin;N-Acetylcytidine

CAS:3768-18-1

MF:C11H15N3O6

MW:285.25

EINECS:223-195-6

Product Categories:Nucleic acids;Biochemicals and Reagents;Nucleoside Analogs;Nucleosides, Nucleotides, Oligonucleotides N4-Acetylcytidine

Chemical Properties: mp 199 C (dec.)(lit.) storage temp. -20C

CAS DataBase Reference: 3768-18-1(

CAS DataBase Reference:) NIST Chemistry ReferenceCytidine, n-acetyl-(3768-18-1) Xn Risk Statements 20/21/22 Safety Statements 36 WGK Germany 3 N4-Acetylcytidine

Usage And Synthesis: N4-Acetylcytidine

