

## Product Information

### N4-Acetyl-2'-deoxycytidine

**Cat. No.:** X23-06-YW124

**Size:** 250 mg; 500 mg; 1 g; 5g; 10g

**CAS Number:** 32909-05-0

**PubChem CID:** 11346228

**Synonym:** N4-Ac-2'-dC; N4-Acetyl-2'-deoxycytidine; N-(1-((2R,4S,5R)-4-Hydroxy-5-(hydroxymethyl)tetrahydrofuran-2-yl)-2-oxo-1,2-dihydropyrimidin-4-yl)acetamide; Cytidine, N-acetyl-2'-deoxy-; N-[1-[(2R,4S,5R)-4-hydroxy-5-(hydroxymethyl)oxolan-2-yl]-2-oxopyrimidin-4-yl]acetamide

**This product is for research use only and is not intended for diagnostic use.**

#### Product Information

<b>Description</b>	N4-Acetyl-2'-deoxycytidine at CD BioGlyco is a white to off-white powder product with a purity of $\geq 97\%$ . It binds to the active site of the enzyme ribonucleotide reductase, inhibiting ribonucleotide to deoxyribonucleotide conversion.
<b>Molecular Weight</b>	269.257
<b>Molecular Formula</b>	$C_{11}H_{15}N_3O_5$
<b>InChI</b>	InChI=1S/C11H15N3O5/c1-6(16)12-9-2-3-14(11(18)13-9)10-4-7(17)8(5-15)19-10/h2-3,7-8,10,15,17H,4-5H2,1H3,(H,12,13,16,18)/t7-,8+,10+/m0/s1
<b>InChI Key</b>	RWYFZABPLDFELM-QXFUBDJGSA-N
<b>Canonical SMILES</b>	<chem>CC(=O)NC1=NC(=O)N(C=C1)C2CC(C(O2)CO)O</chem>
<b>Isomeric SMILES</b>	<chem>CC(=O)NC1=NC(=O)N(C=C1)[C@H]2C[C@@H]([C@H](O2)CO)O</chem>
<b>Form</b>	White to off-white powder
<b>Purity</b>	$\geq 97\%$
<b>Applications</b>	N4-Acetyl-2'-deoxycytidine is a nucleoside analogue that can be used as a DNA synthesis inhibitor.
<b>Storage</b>	Store at 4°C.