

## Product Information

### Modified nucleoside 5-hydroxy methyl-2'-dC

**Cat. No.:** X24-08-LY001

**Size:** 5 mg; 10 mg; 25 mg; 100 mg; 500 mg

**CAS Number:** 7226-77-9

**Compound CID:** 169016

**Synonym:** 7226-77-9; 5-Hydroxymethyl-2'-deoxycytidine;

4-Amino-1-[(2*R*,4*S*,5*R*

)-4-hydroxy-5-(hydroxymethyl)oxolan-2-yl]-5-(hydroxymethyl)pyrimidin-2-one;

2'-Deoxy-5-(hydroxymethyl)cytidine;

4-Amino-1-[(2*R*,4*S*,5*R*

)-4-

hydrox

y-5-(hydroxymethyl)tetrahydrofuran-2-yl]-5-(hydroxymethyl)pyrimidin-2(1*H*)-one;

5-Hydroxymethyl-2 inverted exclamation mark -deoxycytidine;

4-Amino-1-[(2*R*,4*S*,5*R*

)-4-hydroxy-5-(hydroxymethyl)oxolan-2-yl]-5-(hydroxymethyl)-1,2-dihydropyrimidin-2-o

ne; 5-(Hydroxymethyl)deoxycytidine;

1-(2-Deoxypentofuranosyl)-5-(hydroxymethyl)-4-imino-1,4-dihydropyrimidin-2-ol;

4-Am

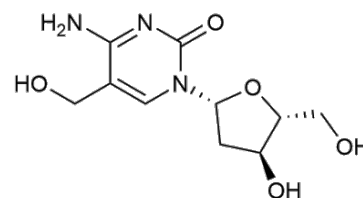
ino-1-(4-hy

droy-5-hydroxymethyl-tetrahydro-furan-2-yl)-5-hydroxymethyl-1*H*-pyrimidin-2-one;

4-Amino-1-[(2*R*,4*S*,5*R*

)-4-hydroxy-5-(hydroxymethyl)tetrahydrofuran-2-yl]-5-(hydroxymethyl)pyrimidin-2-one

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



### Product Information

<b>Description</b>	5-Hydroxy methyl-2'-dC is a modified nucleotide that is a derivative of 2'-deoxycytidine aldehyde.
<b>Molecular Weight</b>	257.24
<b>Molecular Formula</b>	C <sub>10</sub> H <sub>15</sub> N <sub>3</sub> O <sub>5</sub>
<b>IUPAC Name</b>	4-Amino-1-[(2 <i>R</i> ,4 <i>S</i> ,5 <i>R</i> )-4-hydroxy-5-(hydroxymethyl)oxolan-2-yl]-5-(hydroxymethyl)pyrimidin-2-one

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<b>InChI</b>	InChI=1S/C10H15N3O5/c11-9-5(3-14)2-13(10(17)12-9)8-1-6(16)7(4-15)18-8/h2,6-8,14-16H,1,3-4H2,(H2,11,12,17)/t6-,7+,8+/m0/s1
<b>InChI Key</b>	HMUOMFLFUUHUPE-XLPZGREQSA-N
<b>Canonical SMILES</b>	C1C(C(OC1N2C=C(C(=NC2=O)N)CO)CO)O
<b>Isomeric SMILES</b>	C1[C@@H]([C@H](O[C@H]1N2C=C(C(=NC2=O)N)CO)CO)O
<b>Form</b>	Powder
<b>Purity</b>	≥95%
<b>Applications</b>	5-Hydroxy methyl-2'-dC is widely used in the study of DNA modification and epigenetics and as a raw material for DNA synthesis.
<b>Storage</b>	Store at -20°C.

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### Safety Information

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<b>Personal Protective Equipment</b>	Gloves, eyeshields, N95 mask
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