

## Product Information

### Deoxy-5-methylcytidylic acid

**Cat. No.:** X24-03-LY683

**Size:** 100 mg; 250 mg; 500 mg; 1 g

**MDL:** MFCD00038064

**CAS Number:** 2498-41-1

**Compound CID:** 102276

**Synonym:** 2498-41-1;

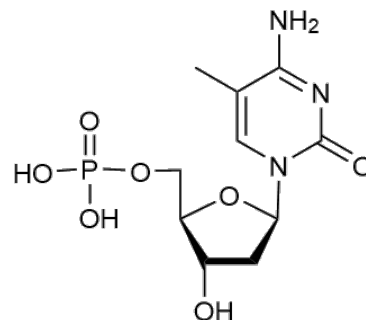
((2*R*,3*S*,5*R*

)-5-(4-Amino-5-methyl-2-oxopyrimidin-1(2*H*)-yl)-3-hydroxytetrahydrofuran-2-yl)methyl

dihydrogen phosphate;5-Methyl-2'-deoxycytidine 5'-monophosphate;

2'-Deoxy-5-methylcytidine 5'-monophosphate; 2'-Deoxy-5-methyl-5'-cytidylic acid

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



### Product Information

<b>Description</b>	Deoxy-5-methylcytidylic acid is a potent nucleotide analog with antiviral and anticancer activities.
<b>Molecular Weight</b>	321.22
<b>Molecular Formula</b>	C <sub>10</sub> H <sub>16</sub> N <sub>3</sub> O <sub>7</sub> P
<b>IUPAC Name</b>	[(2 <i>R</i> ,3 <i>S</i> ,5 <i>R</i> )-5-(4-Amino-5-methyl-2-oxopyrimidin-1-yl)-3-hydroxyoxolan-2-yl]methyl dihydrogen phosphate
<b>InChI</b>	InChI=1S/C10H16N3O7P/c1-5-3-13(10(15)12-9(5)11)8-2-6(14)7(20-8)4-19-21(16,17)18/h3,6-8,14H,2,4H2,1H3,(H2,11,12,15)(H2,16,17,18)/t6-,7+,8+/m0/s1
<b>InChI Key</b>	RGDVNLHBCKWZDA-XLPZGREQSA-N
<b>Canonical SMILES</b>	CC1=CN(C(=O)N=C1N)C2CC(C(O2)COP(=O)(O)O)O
<b>Isomeric SMILES</b>	CC1=CN(C(=O)N=C1N)[C@H]2C[C@@H]([C@H](O2)COP(=O)(O)O)O
<b>Form</b>	Solid
<b>Purity</b>	≥98%
<b>Applications</b>	Deoxy-5-methylcytidylic acid is widely used to inhibit virus replication and transmission.
<b>Storage</b>	Store at -20°C.