

## Product Information

### Isocytidine for nucleotide synthesis

**Cat. No.:** X24-04-QCY064

**Size:** 5 mg; 10 mg; 50 mg; 100 mg; 200 mg

**MDL:** MFCD25542467

**CAS Number:** 489-59-8

**Compound CID:** 65031

**Synonym:** 489-59-8; Isocytidine; 2-Amino-1-(3,4-dihydroxy-5-(hydroxymethyl)tetrahydrofuran-2-yl)pyrimidin-4(1*H*)-one; 2-Amino-1-β-D-ribofuranosyl-4(1*H*)-pyrimidinone; Nucleotide synthesis reagent

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

#### Product Information

<b>Description</b>	Isocytidine, also known as 5-methylcytidine, is a post-translationally modified nucleoside that can affect protein synthesis and other biological processes.
<b>Molecular Weight</b>	243.22
<b>Molecular Formula</b>	C <sub>9</sub> H <sub>13</sub> N <sub>3</sub> O <sub>5</sub>
<b>IUPAC Name</b>	2-Amino-1-[(2 <i>R</i> ,3 <i>R</i> ,4 <i>S</i> ,5 <i>R</i> )-3,4-dihydroxy-5-(hydroxymethyl)oxolan-2-yl]pyrimidin-4-one
<b>InChI</b>	InChI=1S/C9H13N3O5/c10-9-11-5(14)1-2-12(9)8-7(16)6(15)4(3-13)17-8/h1-2,4,6-8,13,15-16H,3H2,(H2,10,11,14)/t4-,6-,7-,8-/m1/s1
<b>InChI Key</b>	RGNOTKMIMZMNRX-XVFCMESISA-N
<b>Canonical SMILES</b>	C1=CN(C(=NC1=O)N)C2C(C(C(O2)CO)O)O
<b>Isomeric SMILES</b>	C1=CN(C(=NC1=O)N)[C@H]2[C@@H]([C@@H]([C@H](O2)CO)O)O
<b>Form</b>	Powder
<b>Purity</b>	≥98%
<b>Identity</b>	Confirmed by NMR/HPLC/MS.
<b>Applications</b>	Isocytidine can be used to research the synthesis of RNA molecules and to investigate the structure and function of RNA.
<b>Storage</b>	Store at 4°C.