

## Product Information

### Ara-CMP for nucleotide synthesis

**Cat. No.:** X24-04-QCY167

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

**MDL:** MFCD00069771

**CAS Number:** 7075-11-8

**Compound CID:** 65177

**Synonym:** 7075-11-8; Cytarabine 5'-monophosphate; Ara-5'-CMP; Cytosine b-D-arabinofuranoside 5'-monophosphate; Cytosine-b-D-arabinofuranoside-5'-monophosphate; UNII-Y73692GHI4; ChEMBL596186; SCHEMBL11217191; BDBM31913

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

#### Product Information

<b>Description</b>	The structure of Ara-CMP contains an arabinose moiety and a cytidine moiety that can interact with enzymes such as DNA polymerase and participate in the inhibition of DNA replication.
<b>Molecular Weight</b>	323.2
<b>Molecular Formula</b>	C <sub>9</sub> H <sub>14</sub> N <sub>3</sub> O <sub>8</sub> P
<b>IUPAC Name</b>	[(2R,3S,4S,5R)-5-(4-Amino-2-oxopyrimidin-1-yl)-3,4-dihydroxyoxolan-2-yl]methyl dihydrogen phosphate
<b>InChI</b>	InChI=1S/C9H14N3O8P/c10-5-1-2-12(9(15)11-5)8-7(14)6(13)4(20-8)3-19-21(16,17)18/h1-2,4,6-8,13-14H,3H2,(H2,10,11,15)(H2,16,17,18)/t4-,6-,7+,8-/m1/s1
<b>InChI Key</b>	IERHLVCPSMICTF-CCXZUQQUSA-N
<b>Canonical SMILES</b>	C1=CN(C(=O)N=C1N)C2C(C(C(O2)COP(=O)(O)O)O)O
<b>Isomeric SMILES</b>	C1=CN(C(=O)N=C1N)[C@H]2[C@H]([C@@H]([C@H](O2)COP(=O)(O)O)O)O
<b>Form</b>	Powder
<b>Purity</b>	≥99%
<b>Identity</b>	Confirmed by NMR/HPLC/MS.
<b>Applications</b>	Ara-CMP can be used to explore the mechanisms of cancer production and the role of immunomodulation in the human body.
<b>Storage</b>	Store at 4°C.