

Product Information

Modified nucleoside iso-Cr

Cat. No.: X24-08-LY008

Size: 50 mg; 100 mg; 250 mg; 500 mg

CAS Number: 489-59-8

Compound CID: 65031

Synonym: 489-59-8; Isocytidine;

2-Amino-1-((2*R*,3*R*,4*S*,5*R*)-3,4-dihydroxy-5-(hydroxymethyl)tetrahydrofuran-2-yl)pyrimidin-4(1*H*)-one;

2-Amino-1-beta-D-ribofuranosyl-4(1*H*)-pyrimidinone;

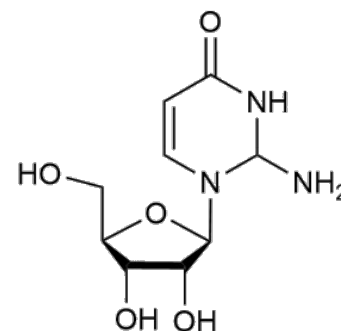
1-(2-Amino-4-oxo-1(4*H*)-pyrimidinyl)-1-deoxy-beta-D-ribofuranose;

2-Imino-1-pentofuranosyl-1,2-dihydropyrimidin-4-ol; 4(1*H*)-Pyrimidinone,

2-amino-1-beta-D-ribofuranosyl-;

2-Amino-1-[(2*R*,3*R*,4*S*,5*R*)

]-3,4-dihydroxy-5-(hydroxymethyl)oxolan-2-yl]-1,4-dihydropyrimidin-4-one



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

Product Information

Description	Iso-Cr is an important nucleoside with a structure similar to cytosine.
Molecular Weight	243.22
Molecular Formula	C ₉ H ₁₃ N ₃ O ₅
IUPAC Name	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
InChI	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
InChI Key	RGNOTKMIMZMNRX-XVFCMESISA-N
Canonical SMILES	C1=CN(C(=NC1=O)N)C2C(C(C(O2)CO)O)O
Isomeric SMILES	C1=CN(C(=NC1=O)N)[C@H]2[C@@H]([C@@H]([C@H](O2)CO)O)O
Form	White to off-white powder
Purity	≥98%, determined by HPLC.
Applications	Iso-Cr plays a role in the synthesis, modification, and regulation of DNA and RNA.
Storage	Store at 4°C.



Safety Information

Personal Protective Equipment Gloves, eyeshields, N95 mask
