

Product Information

5,6-Dihydrouridine

Cat. No.: X24-03-LY297

Size: 5 mg; 10 mg; 25 mg; 50 mg

MDL: MFCD00047490

CAS Number: 5627-05-4

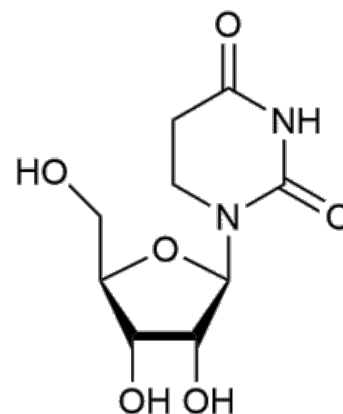
Compound CID: 94312

Synonym: 5627-05-4; Uridine-t; Dihydrouridine;

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

)-3,4-Dihydroxy-5-(hydroxymethyl)oxolan-2-yl]-4-hydroxy-1,3-diazinan-2-one;

2,4(1*H*,3*H*)-Pyrimidinedione, dihydro-1-.beta.-D-ribofuranosyl-



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

Product Information

Description	5,6-Dihydrouridine is a modified nucleotide associated with purine bases in RNA.
Molecular Weight	246.22
Molecular Formula	C ₉ H ₁₄ N ₂ O ₆
IUPAC Name	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]-1,3-diazinane-2,4-dione
InChI	InChI=1S/C9H14N2O6/c12-3-4-6(14)7(15)8(17-4)11-2-1-5(13)10-9(11)16/h4,6-8,12,14-15H,1-3H2,(H,10,13,16)/t4-,6-,7-,8-/m1/s1
InChI Key	ZPTBLXKRQACLCR-XVFCMESISA-N
Canonical SMILES	C1CN(C(=O)NC1=O)C2C(C(C(O2)CO)O)O
Isomeric SMILES	C1CN(C(=O)NC1=O)[C@H]2[C@@H]([C@@H]([C@H]([C@H](O2)CO)O)O
Form	Solid
Purity	≥98%
Applications	5,6-Dihydrouridine affects the folded structure and function of RNA molecules and regulate gene expression within the cell.
Storage	Store at -20°C.