



Product Information

2-Thiouridine 5'-phosphate, Purity ≥95%

Cat. No.: X25-01-WXX121

Size: 250 mg; 500 mg; 1 g; 2 g

CAS Number: 29123-25-9

Compound CID: 3081495

Synonym: 29123-25-9; 2-Thiouridine 5'-phosphate;

[(2*R*,3*S*,4*R*,5*R*)-3,4-dihydroxy-5-(4-oxo-2-sulfanylidene-*pyrimidin-1-yl*)oxolan-2-yl]methyl dihydrogen phosphate;

2-Thiouridine5'-phosphate

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

Product Information

Description	2-Thiouridine 5'-phosphate is a substrate for several DNA polymerases.
Molecular Weight	340.25
IUPAC Name	[(2 <i>R</i> ,3 <i>S</i> ,4 <i>R</i> ,5 <i>R</i>)-3,4-dihydroxy-5-(4-oxo-2-sulfanylidene- <i>pyrimidin-1-yl</i>)oxolan-2-yl]methyl dihydrogen phosphate
InChI	InChI=1S/C9H13N2O8PS/c12-5-1-2-11(9(21)10-5)8-7(14)6(13)4(19-8)3-18-20(15,16)17/h1-2,4,6-8,13-14H,3H2,(H,10,12,21)(H2,15,16,17)/t4-,6-,7-,8-/m1/s1
InChI Key	OEUXFECIJDETRF-XVFCMESISA-N
Canonical SMILES	<chem>C1=CN(C(=S)NC1=O)C2C(C(C(O2)COP(=O)(O)O)O)O</chem>
Isomeric SMILES	<chem>C1=CN(C(=S)NC1=O)[C@H]2[C@@H]([C@@H]([C@H](O2)COP(=O)(O)O)O)O</chem>
Form	Solid
Purity	≥95%
Applications	2-Thiouridine 5'-phosphate is used in transcription, mutagenesis, epigenetics/DNA damage, and photocrosslinking studies.
Storage	Store at -20°C.