

Product Information

Modified nucleoside 2-thio-Ur

Cat. No.: X24-08-LY002

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

CAS Number: 20235-78-3

Compound CID: 3036443

Synonym: 20235-78-3; 2-Thiouridine; Uridine, 2-thio-; 1-beta-D-

Ribofuranosyl-2-thiouracil;

1-(beta-D-Ribofuranosyl)-2-thioxo-2,3-dihydropyrimidin-4(1*H*)-one;

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

)-3,4-Dihydroxy-5-(hydroxymethyl)oxolan-2-yl]-2-sulfanylidene-pyrimidin-4-one;

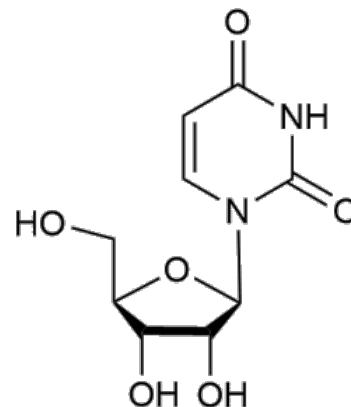
1-((2*R*,3*R*,4*S*,5*R*

)-3,4-Dihydroxy-5-(hydroxymethyl)tetrahydrofuran-2-yl)-2-thioxo-2,3-dihydropyrimidin-

4(1*H*)-one; beta-2-Thiouridine;

1-[(2*R*,3*R*,4*S*,5*R*)-3,4-Dihydroxy-5-(hydroxymethyl)tetrahydrofuran-2-yl]-2-thioxo-pyrimidin-4-one;

1-[(2*R*,3*R*,4*S*,5*R*)-3,4-Dihydroxy-5-(hydroxymethyl)tetrahydrofuran-2-yl]-4-hydroxy-pyrimidine-2-thione; 2TU



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

Product Information

Description	2-Thio-Ur is a pyrimidine analog with a sulfur substituent group.
Molecular Weight	260.27
Molecular Formula	C ₉ H ₁₂ N ₂ O ₅ S
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]-2-sulfanylidene-pyrimidin-4-one
InChI	InChI=1S/C9H12N2O5S/c12-3-4-6(14)7(15)8(16-4)11-2-1-5(13)10-9(11)17/h1-2,4,6-8,12,14-15H,3H2,(H,10,13,17)/t4-,6-,7-,8-/m1/s1
InChI Key	GJTBSTBJLVYKAU-XVFCMESISA-N
Canonical SMILES	C1=CN(C(=S)NC1=O)C2C(C(C(O2)CO)O)O
Isomeric SMILES	C1=CN(C(=S)NC1=O)[C@H]2[C@@H]([C@@H]([C@H](O2)CO)O)O
Form	Powder

Purity	≥95%
Applications	2-Thio-Ur can be used as a reagent in nucleic acid chemistry and pharmaceutical research, can be used to synthesize sulfur-substituted nucleotides in DNA and RNA.
Storage	Store at -20°C.

Safety Information

Personal Protective Equipment	Gloves, eyeshields, N95 mask
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