

## Product Information

### 2-Thiothymidine

**Cat. No.:** X24-03-LY657

**Size:** 100 mg; 250 mg; 500 mg; 1 g; 5 g

**MDL:** MFCD03788706

**CAS Number:** 28585-51-5

**Compound CID:** 3005944

**Synonym:** 28585-51-5;

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

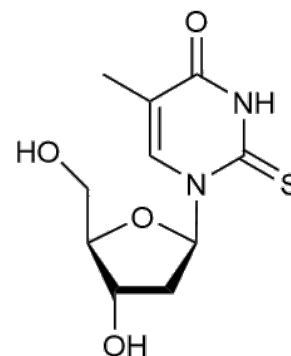
)-4-Hydroxy-5-(hydroxymethyl)tetrahydrofuran-2-yl)-5-methyl-2-thioxo-2,3-dihydropyrimidin-4(1*H*)-one;

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

)-4-Hydroxy-5-(hydroxymethyl)oxolan-2-yl]-5-methyl-2-sulfanylidene-pyrimidin-4-one;

Thiothymidine; thio-thymidine; 2'-Deoxy-2-thiothymidine

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



### Product Information

<b>Description</b>	2-Thiothymidine is a pyrimidine nucleoside containing a sulfur atom in place of an oxygen atom on its purine ring.
<b>Molecular Weight</b>	258.29
<b>Molecular Formula</b>	C <sub>10</sub> H <sub>14</sub> N <sub>2</sub> O <sub>4</sub> S
<b>IUPAC Name</b>	1-[(2 <i>R</i> ,4 <i>S</i> ,5 <i>R</i> )-4-Hydroxy-5-(hydroxymethyl)oxolan-2-yl]-5-methyl-2-sulfanylidene-pyrimidin-4-one
<b>InChI</b>	InChI=1S/C10H14N2O4S/c1-5-3-12(10(17)11-9(5)15)8-2-6(14)7(4-13)16-8/h3,6-8,13-14H,2,4H2,1H3,(H,11,15,17)/t6-,7+,8+/m0/s1
<b>InChI Key</b>	PISWNSOQFZRVJK-XLPZGREQSA-N
<b>Canonical SMILES</b>	CC1=CN(C(=S)NC1=O)C2CC(C(O2)CO)O
<b>Isomeric SMILES</b>	CC1=CN(C(=S)NC1=O)[C@H]2C[C@@H]([C@H](O2)CO)O
<b>Form</b>	Solid
<b>Purity</b>	≥97%
<b>Applications</b>	2-Thiothymidine can be used as a biomarker for DNA repair and DNA synthesis.
<b>Storage</b>	Store at -20°C.



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