



LKT Laboratories, Inc.

## 4-Thiouridine

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### Product Information

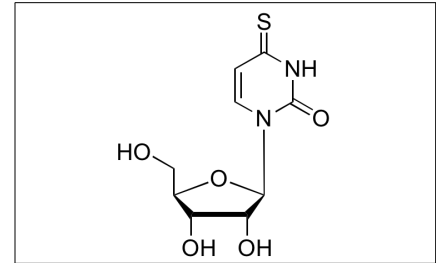
**Product ID** T2933  
**CAS No.** 13957-31-8  
**Chemical Name** Uridine, 4-thio- (8Cl)(9Cl)

**Synonym** Thiouridine

**Formula** C<sub>9</sub>H<sub>12</sub>N<sub>2</sub>O<sub>5</sub>S  
**Formula Wt.** 260.27  
**Melting Point** 141-143 °C  
**Purity** ≥98%  
**Solubility** Soluble in water (20 mg/mL), ethanol (2 mg/mL), DMSO (10 mg/mL).

**Store Temp** -20 °C  
**Ship Temp** Ambient

**Description** 4-Thiouridine is a modified nucleotide that induces DNA cross-linking after irradiation with UV light. This compound is often used for labeling DNA in research models.



**Bulk quantities available upon request**

Product ID	Size
T2933	5 mg
T2933	25 mg
T2933	100 mg
T2933	250 mg

**References** Wang L, Ruffner DE. An ultraviolet crosslink in the hammerhead ribozyme dependent on 2-thiocytidine or 4-thiouridine substitution. *Nucleic Acids Res.* 1997 Nov 1;25(21):4355-61. PMID: 9336468.

Ofengand J, Liou R, Kohut J 3rd, et al. Covalent cross-linking of transfer ribonucleic acid to the ribosomal P site. Mechanism and site of reaction in transfer ribonucleic acid. *Biochemistry.* 1979 Oct 2;18(20):4322-32. PMID: 385051.

**Caution:** This product is intended for laboratory and research use only. It is not for human or drug use.