

Product Data Sheet

Product Name: 2-Thiouridine

Cat. No.: GC42197

Chemical Properties

Cas. No. 20235-78-3

SMILES OC[C@H]1[C@@H](O)[C@@H](O)[C@H](N2C=CC(=NC2=S)O)O1

Formula C₉H₁₂N₂O₅S

M.Wt 260.3

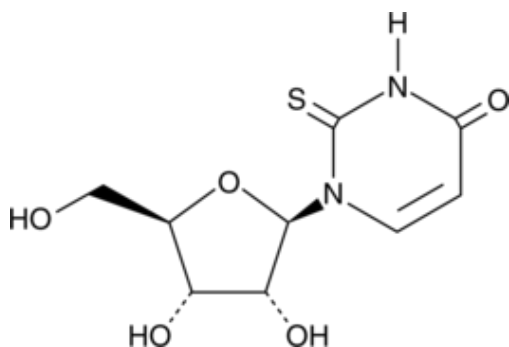
Solubility DMF: 10 mg/ml, DMSO: 10 mg/ml, Ethanol: 2 mg/ml, PBS (pH 7.2): 5 mg/ml

Storage Store at -20°C

General tips For obtaining a higher solubility, please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution: ship with blue ice. All other available size: ship with RT, or blue ice upon request.

Structure



Background

2-Thiouridine (s2U) is a modified nucleobase found in tRNAs that is known to stabilize U:A pairs and modestly destabilize U:G wobble pairs. Modified nucleobases, including 2-thiouridine, are used to

Caution: Product has not been fully validated for medical applications. For research use only.

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study nucleic acid structure and function as well as to engineer novel RNA-based biomolecules.

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