

**Product Name:** 2-ThioUTP tetrasodium salt

**Catalog No.:** 3280

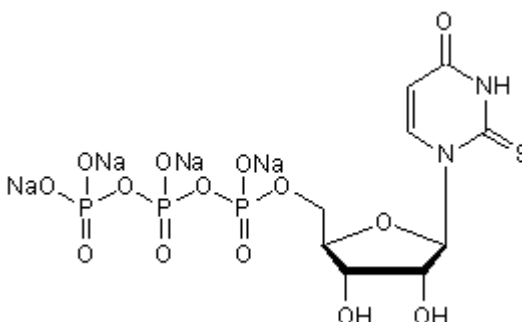
**Batch No.:** 6

CAS Number: 1343364-70-4

IUPAC Name: 2-Thiouridine 5'-triphosphate tetrasodium salt

**1. PHYSICAL AND CHEMICAL PROPERTIES**

**Batch Molecular Formula:**  $C_9H_{11}N_2Na_4O_{14}P_3S$   
**Batch Molecular Weight:** 588.13  
**Physical Appearance:** Colourless liquid  
**Solubility:** Soluble in water (supplied pre-dissolved at a concentration of 10mM)  
**Storage:** Store at -20°C  
**Batch Molecular Structure:**



**2. ANALYTICAL DATA**

**HPLC:** Shows 99.5% purity  
**Mass Spectrum:** Consistent with structure

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

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IUPAC Name: 2-Thiouridine 5'-triphosphate tetrasodium salt

**Description:**

Potent and selective P2Y<sub>2</sub> agonist (EC<sub>50</sub> values are 0.035, 0.35 and 1.5 μM for hP2Y<sub>2</sub>, hP2Y<sub>4</sub> and hP2Y<sub>6</sub> receptors respectively).

**Physical and Chemical Properties:**

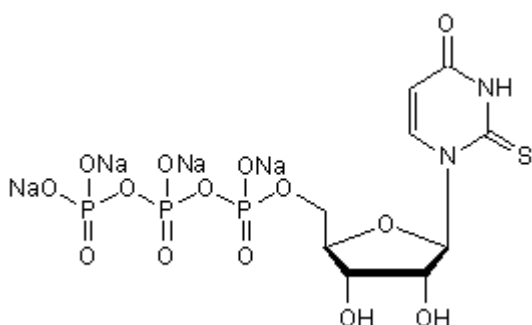
Batch Molecular Formula: C<sub>9</sub>H<sub>11</sub>N<sub>2</sub>Na<sub>4</sub>O<sub>14</sub>P<sub>3</sub>S

Batch Molecular Weight: 588.13

Physical Appearance: Colourless liquid

**Minimum Purity:** >98%

**Batch Molecular Structure:**



**Storage:** Store at -20°C

**Solubility & Usage Info:**

Soluble in water (supplied pre-dissolved at a concentration of 10mM)

**Stability and Solubility Advice:**

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. Our standard recommendations are:

**SOLIDS:** Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

**SOLUTIONS:** We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

**References:**

**EI-Tayeb et al** (2006) Synthesis and structure-activity relationships of uracil nucleotide derivatives and analogues as agonists at human P2Y<sub>2</sub>, P2Y<sub>4</sub> and P2Y<sub>6</sub> receptors. *J.Med.Chem.* **49** 7076. PMID: 17125260.

**Ko et al** (2008) Synthesis and potency of novel uracil nucleotides and derivatives as P2Y<sub>2</sub> and P2Y<sub>6</sub> receptor agonists. *Bioorg.Med.Chem.* **16** 6319. PMID: 18514530.

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