

**Product Name:** UTP $\gamma$ S trisodium salt

**Catalog No.:** 3279

**Batch No.:** 10

CAS Number: 1266569-94-1

IUPAC Name: Uridine-5'-( $\gamma$ -thio)-triphosphate trisodium salt

**1. PHYSICAL AND CHEMICAL PROPERTIES**

**Batch Molecular Formula:** C<sub>9</sub>H<sub>12</sub>N<sub>2</sub>Na<sub>3</sub>O<sub>14</sub>P<sub>3</sub>S

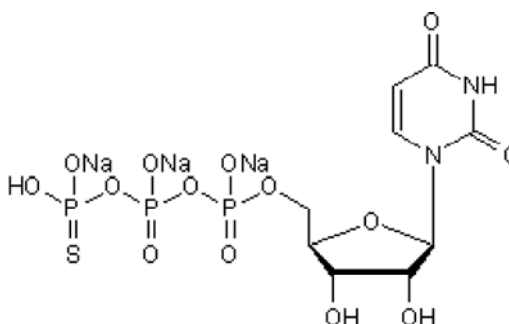
**Batch Molecular Weight:** 566.15

**Physical Appearance:** White solid

**Solubility:** water to 100 mM

**Storage:** Desiccate at -20°C

**Batch Molecular Structure:**



**2. ANALYTICAL DATA**

**HPLC:** Shows 95.4% purity

**Mass Spectrum:** Consistent with structure

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

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**Description:**

Selective P2Y<sub>2</sub> and P2Y<sub>4</sub> receptor agonist. Enzymatically stable.

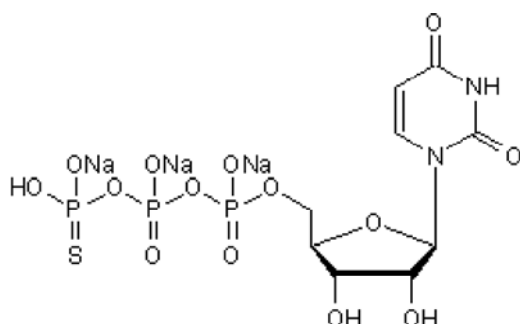
**Physical and Chemical Properties:**

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Batch Molecular Weight: 566.15

Physical Appearance: White solid

**Batch Molecular Structure:**



**Storage:** Desiccate at -20°C

**Solubility & Usage Info:**

water to 100 mM

NOTE: This product contains approximately 5% UDP. CAUTION - This product has been shown to undergo decomposition when dissolved in aqueous solution. The rate of decomposition can be minimized by adjusting the pH; we therefore recommend that solutions of this product be made slightly basic (pH 7.5-8.5) and used on the day of preparation. This product is supplied as a lyophilized solid and may be very hard to visualize. Solutions should be made by adding solvent directly to the vial. The vial should then be vortexed vigorously to ensure the product has completely dissolved.

**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:**

**Malmsjo et al** (2003) The stable pyrimidines UDP $\beta$ S and UTP $\gamma$ S discriminate between contractile cerebrovascular P2 receptors. *Eur.J.Pharmacol.* **458** 305. PMID: 12504787.

**Malmsjo et al** (2000) The stable pyrimidines UDP $\beta$ S and UTP $\gamma$ S discriminate between the P2 receptors that mediate vascular contraction and relaxation of the rat mesenteric artery. *Br.J.Pharmacol.* **131** 51. PMID: 10960068.

**Lazarowski et al** (1996) Enzymatic synthesis of UTP $\gamma$ S, a potent hydrolysis resistant agonist of P<sub>2U</sub>-purinoceptors. *Br.J.Pharmacol.* **117** 203. PMID: 8825364.

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