

**Product Name:** PSB 1114

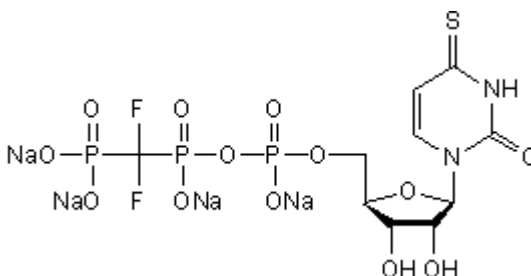
**Catalog No.:** 4333

**Batch No.:** 1

**IUPAC Name:** 4-Thiouridine-5'-O-(β,γ-difluoromethylene)triphosphate tetrasodium salt

**1. PHYSICAL AND CHEMICAL PROPERTIES**

**Batch Molecular Formula:** C<sub>10</sub>H<sub>11</sub>F<sub>2</sub>N<sub>2</sub>Na<sub>4</sub>O<sub>13</sub>P<sub>3</sub>S  
**Batch Molecular Weight:** 622.14  
**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 99.1% 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:** 4-Thiouridine-5'-O-(β,γ-difluoromethylene)triphosphate tetrasodium salt

**Description:**

Potent, selective P2Y<sub>2</sub> agonist (EC<sub>50</sub> = 0.134 μM). Displays >60-fold selectivity versus P2Y<sub>4</sub> and P2Y<sub>6</sub> receptors.

**Physical and Chemical Properties:**

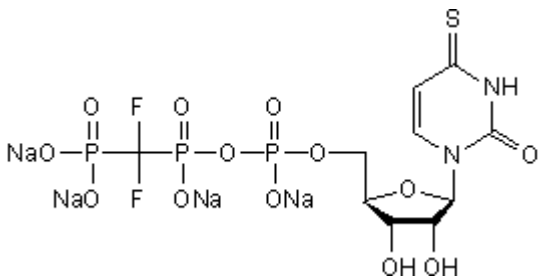
Batch Molecular Formula: C<sub>10</sub>H<sub>11</sub>F<sub>2</sub>N<sub>2</sub>Na<sub>4</sub>O<sub>13</sub>P<sub>3</sub>S

Batch Molecular Weight: 622.14

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** (2011) Structural modifications of UMP, UDP, and UTP leading to subtype-selective agonists for P2Y<sub>2</sub>, P2Y<sub>4</sub>, and P2Y<sub>6</sub> receptors. *J.Med.Chem.* **54** 2878. PMID: 1417463.

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