

**Product Name:** PSB 1114

**Catalog No.:** 4333

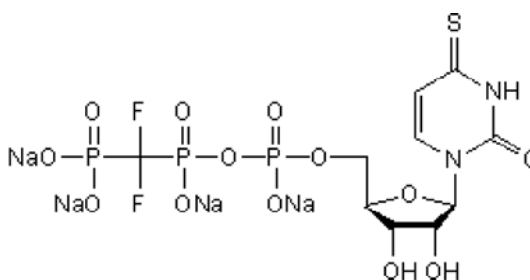
**Batch No.:** 3

CAS Number: 1657025-60-9

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

## 1. PHYSICAL AND CHEMICAL PROPERTIES

<b>Batch Molecular Formula:</b>	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
<b>Batch Molecular Weight:</b>	622.14
<b>Physical Appearance:</b>	solution
<b>Solubility:</b>	Soluble in water (supplied pre-dissolved at a concentration of 10mM)
<b>Storage:</b>	Store at -20°C
<b>Batch Molecular Structure:</b>	



## 2. ANALYTICAL DATA

<b>HPLC:</b>	Shows 99.5% purity
<b>Mass Spectrum:</b>	Consistent with structure

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

**bio-techne.com**

info@bio-techne.com

techsupport@bio-techne.com

**North America**

Tel: (800) 343 7475

**China**

info.cn@bio-techne.com

Tel: +86 (21) 52380373

**Europe Middle East Africa**

Tel: +44 (0)1235 529449

**Rest of World**

[www.tocris.com/distributors](http://www.tocris.com/distributors)

Tel: +1 612 379 2956

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**3**

CAS Number: 1657025-60-9

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

**Description:**

PSB 1114 is a 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:**

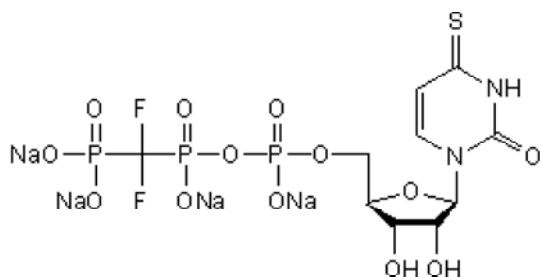
Batch Molecular Formula: C<sub>10</sub>H<sub>11</sub>F<sub>2</sub>N<sub>2</sub>Na<sub>4</sub>O<sub>13</sub>P<sub>3</sub>S

Batch Molecular Weight: 622.14

Physical Appearance: solution

**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:**

**El-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: 21417463.

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