

Certificate of Analysis

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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

Batch Molecular Formula: C₁₀H₁₁F₂N₂Na₄O₁₃P₃S

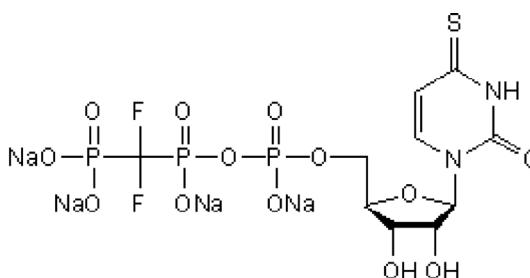
Batch Molecular Weight: 622.14

Physical Appearance: solution

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

Storage: Store at -80°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

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

Tel: +1 612 379 2956

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CAS Number: 1657025-60-9

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

Description:

PSB 1114 is a potent, selective P2Y₂ agonist (EC₅₀ = 0.134 μM). Displays >60-fold selectivity versus P2Y₄ and P2Y₆ receptors.

Physical and Chemical Properties:

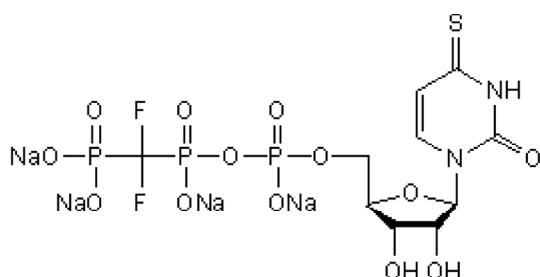
Batch Molecular Formula: C₁₀H₁₁F₂N₂Na₄O₁₃P₃S

Batch Molecular Weight: 622.14

Physical Appearance: solution

Minimum Purity: ≥98%

Batch Molecular Structure:



Storage: Store at -80°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. *Unless contradicted by product-specific protocols or instructions, our standard recommendations apply:

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 P2Y₂, P2Y₄, and P2Y₆ receptors. *J.Med.Chem.* **54** 2878. PMID: 21417463.

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