

Product Name: PSB 0474

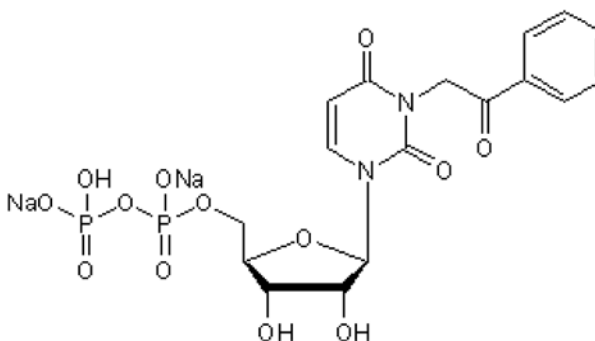
Catalog No.: 2715

Batch No.: 9

IUPAC Name: 3-(2-Oxo-2-phenylethyl)-uridine-5'-diphosphate disodium salt

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₇H₁₈N₂Na₂O₁₃P₂
Batch Molecular Weight: 566.26
Physical Appearance: Colourless solution
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 99.6% purity
Mass Spectrum: Consistent with structure

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

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Description:

Potent and selective P2Y₆ receptor agonist (EC₅₀ values are 70, > 1000 and > 10000 nM for P2Y₆, P2Y₂ and P2Y₄ receptors respectively). Induces contractions of rat isolated intrapulmonary arteries in vitro.

Physical and Chemical Properties:

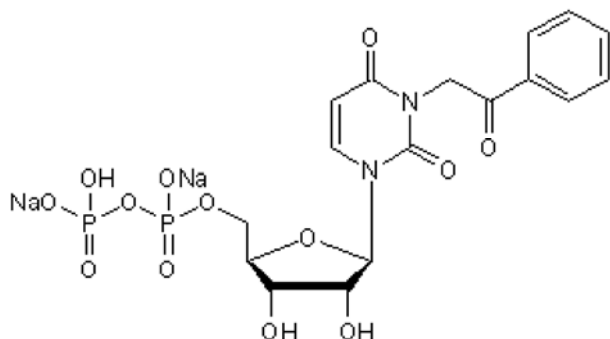
Batch Molecular Formula: C₁₇H₁₈N₂Na₂O₁₃P₂

Batch Molecular Weight: 566.26

Physical Appearance: Colourless 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)

This compound is supplied in aqueous solution 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:

Mitchell et al (2012) Identification of contractile P2Y₁, P2Y₆, and P2Y₁₂ receptors in rat intrapulmonary artery using selective ligands. *J.Pharmacol.Exp.Ther.* **343** 755. PMID: 22991416.

El-Tayeb et al (2006) Synthesis and structure-activity relationships of uracil nucleotide derivatives and analogues as agonists at human P2Y₂, P2Y₄ and P2Y₆ receptors. *J.Med.Chem.* **49** 7076. PMID: 17125260.

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