

## Certificate of Analysis

**Product Name:** UDP disodium salt

CAS Number: 27821-45-0

IUPAC Name: Uridine-5'-diphosphate disodium salt

**Catalog No.:** 3111

**Batch No.:** 3

EC Number: 248-678-9

### 1. PHYSICAL AND CHEMICAL PROPERTIES

**Batch Molecular Formula:**  $C_9H_{12}N_2Na_2O_{12}P_2 \cdot 5H_2O$

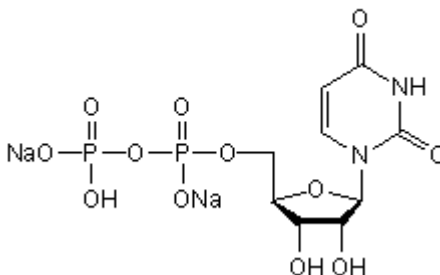
**Batch Molecular Weight:** 538.2

**Physical Appearance:** White solid

**Solubility:** water to 100 mM

**Storage:** Store at -20°C

**Batch Molecular Structure:**



### 2. ANALYTICAL DATA

**HPLC:** Shows 98.2% purity

**<sup>1</sup>H NMR:** Consistent with structure

**Mass Spectrum:** Consistent with structure

**Microanalysis:**

Carbon Hydrogen Nitrogen

Theoretical 20.09 4.12 5.2

Found 20.15 4.05 5.22

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

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CAS Number: 27821-45-0

IUPAC Name: Uridine-5'-diphosphate disodium salt

**Catalog No.:** 3111

EC Number: 248-678-9

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**Description:**

Endogenous P2Y receptor agonist which preferentially activates P2Y<sub>6</sub>. Shown to be a competitive antagonist at P2Y<sub>14</sub> receptors.

**Physical and Chemical Properties:**

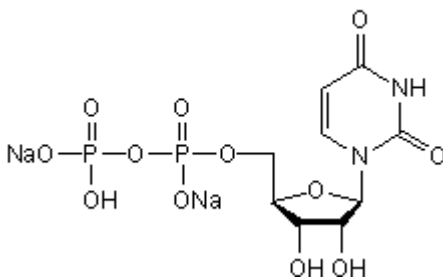
Batch Molecular Formula: C<sub>9</sub>H<sub>12</sub>N<sub>2</sub>Na<sub>2</sub>O<sub>12</sub>P<sub>2</sub>.5H<sub>2</sub>O

Batch Molecular Weight: 538.2

Physical Appearance: White solid

**Minimum Purity:** >97%

**Batch Molecular Structure:**



**Storage:** Store at -20°C

**Solubility & Usage Info:**

water to 100 mM

This product contains 2% ethanol by weight.

**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:**

**Ralevic and Burnstock** (1998) Receptors for purines and pyrimidines. *Pharmacol.Rev.* **50** 413. PMID: 9755289.

**Fricks et al** (2008) UDP is a competitive antagonist at the human P2Y<sub>14</sub> receptor. *J.Pharmacol.Exp.Ther.* **325** 588. PMID: 18252808.

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