

# Certificate of Analysis

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**Product Name:** UDP disodium salt

**Catalog No.:** 3111

**Batch No.:** 3

CAS Number: 27821-45-0

EC Number: 248-678-9

IUPAC Name: Uridine-5'-diphosphate disodium salt

## 1. 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

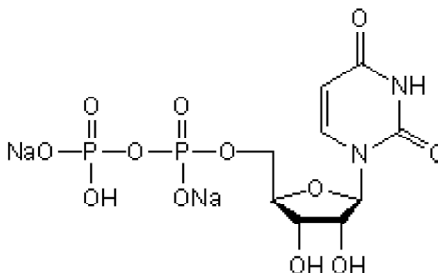
**Batch Molecular Weight:** 538.2

**Physical Appearance:** White solid

**Solubility:** water to 100 mM

**Storage:** Store at -20°C

**Batch Molecular Structure:**



## 2. ANALYTICAL DATA

**HPLC:** Shows 98.1% 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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## Product Information

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CAS Number: 27821-45-0

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IUPAC Name: Uridine-5'-diphosphate disodium salt

### Description:

UDP disodium salt is an 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:

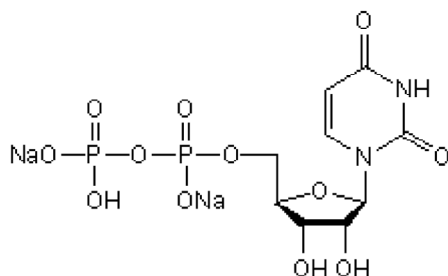
Batch Molecular Formula: C<sub>9</sub>H<sub>12</sub>N<sub>2</sub>Na<sub>2</sub>O<sub>12</sub>P<sub>2</sub>·5H<sub>2</sub>O

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. \*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:

**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.

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

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