

Product Name: UDP disodium salt

CAS Number: 27821-45-0

IUPAC Name: Uridine-5'-diphosphate disodium salt

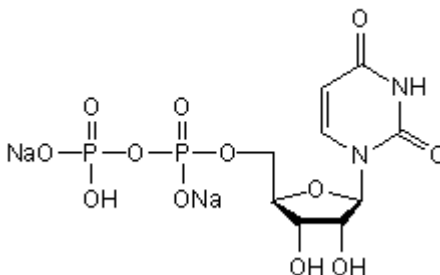
Catalog No.: 3111

Batch No.: 2

EC Number: 248-678-9

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: $C_9H_{12}N_2Na_2O_{12}P_2 \cdot 3H_2O$
Batch Molecular Weight: 502.17
Physical Appearance: White solid
Solubility: water to 100 mM
Storage: Store at -20°C
Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 97% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure
Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	21.53	3.61	5.58
Found	21.38	3.6	5.41

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

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Description:

Endogenous P2Y receptor agonist which preferentially activates P2Y₆. Shown to be a competitive antagonist at P2Y₁₄ receptors.

Physical and Chemical Properties:

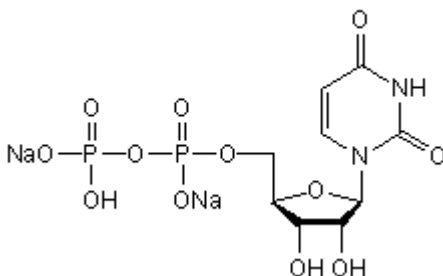
Batch Molecular Formula: C₉H₁₂N₂Na₂O₁₂P₂·3H₂O

Batch Molecular Weight: 502.17

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 P2Y₁₄ receptor. *J.Pharmacol.Exp.Ther.* **325** 588. PMID: 18252808.

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