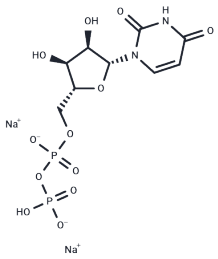
# Data Sheet (Cat.No.T4706)

TargetMol

## Uridine-5'-diphosphate disodium salt

### Chemical Properties



CAS No. : 27821-45-0

Formula: C9H12N2Na2O12P2

Molecular Weight: 448.12

Storage: Store at low temperature,Keep away from direct sunlight,Keep away from moisture
Powder: -20°C for 3 years | In solvent: -80°C for 1 year
Actual storage temperature shall be subject to the COA.

### Biological Description

| | |
|---|---|
| Description | Uridine-5'-diphosphate disodium salt (UDP disodium salt) is a specific agonist of the P2Y6 receptors (EC50 = 13 nM for human P2Y6), stimulating the production of inflammatory mediators, phagocytosis, and vasoconstriction. Uridine-5'-diphosphate disodium salt also acts as an antagonist of P2Y14. |
| Targets(IC50) | Endogenous Metabolite,DNA/RNA Synthesis,P2Y Receptor |

### Solubility Information

| | |
|---|---|
| Solubility | DMSO: 60 mg/mL (133.89 mM),Sonication is recommended.<br>H2O: 111 mg/mL (247.7 mM),Sonication and heating are recommended.<br>(< 1 mg/ml refers to the product slightly soluble or insoluble) |

Preparing Stock Solutions

| | 1mg | 5mg | 10mg |
|---|---|---|---|
| 1 mM | 2.2315 mL | 11.1577 mL | 22.3155 mL |
| 5 mM | 0.4463 mL | 2.2315 mL | 4.4631 mL |
| 10 mM | 0.2232 mL | 1.1158 mL | 2.2315 mL |
| 50 mM | 0.0446 mL | 0.2232 mL | 0.4463 mL |

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Jacobson, K.A., et al. Development of selective agonists and antagonists of P2Y receptors. Purinergic Signal. 5(1), 75-89 (2009).

Xu X, Lu Y, Cao L, et al.Tumor-intrinsic P2RY6 drives immunosuppression by enhancing PGE2 production.Cell Reports.2024, 43(7): 114469.

Abbracchio, M.P., et al. International Union of Pharmacology LVIII: Update on the P2Y G protein-coupled nucleotide receptors: From molecular mechanisms and pathophysiology to therapy. Pharmacological Reviews 58 (3), 281-341 (2006).



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