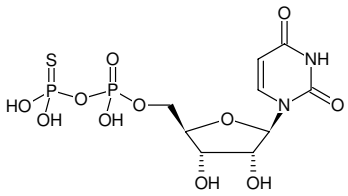
DATA SHEET

Jena Bioscience

UDPβS

Uridine-5'-(β-thio)-diphosphate, Sodium salt

Cat. No.	Amount
NU-442-5	5 mg



Structural formula of UDPβS

For research use only!

Shipping: shipped on gel packs

Storage Conditions: store at -20 °C

Short term exposure (up to 1 week cumulative) to ambient temperature possible.

Shelf Life: 6 months after date of delivery

Molecular Formula: $C_9H_{14}N_2O_{11}P_2S$ (free acid)

Molecular Weight: 420.22 g/mol (free acid)

Exact Mass: 419.98 g/mol (free acid)

Purity: ≥ 90 % (HPLC)

Form: solid

Color: white to off-white

Spectroscopic Properties: λ_{max} 262 nm, ε 10.0 L mmol^{-1} cm^{-1} (Tris-HCl pH 7.5)

Specific Ligands:

Ligand for purinergic receptors:
Selective agonist at $P2Y_6$[1,2] receptors

Please note: For reasons of stability, please make sure that the pH value of a solution of this product never drops below 7.0. This can be achieved by dissolving the nucleotide in a buffer of your choice (50 - 100 mM, pH 7 - 10). Dissolve and adjust concentration photometrically.

Selected References:

[1] Malmsjö *et al.* (2003) The stable pyrimidines UDPbetaS and UTPgammaS discriminate between contractile cerebrovascular P2 receptors. *J. Pharmacol.* **458 (3)**:305.

[2] Malmsjö *et al.* (2000) Characterization of contractile P2 receptors in human coronary arteries by use of the stable pyrimidines uridine 5'-O-thiodiphosphate and uridine 5'-O-3-thiotriphosphate. *J. Pharmacol. Exp. Ther.* **293 (3)**:755.