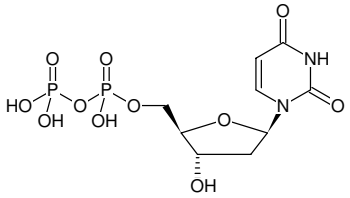
DATA SHEET

Jena Bioscience

# dUDP

2'-Deoxyuridine-5'-diphosphate, Triethylammonium salt

| Cat. No. | Amount |
|---|---|
| NU-901S | 150 µl (10 mM) |
| NU-901L | 5 x 150 µl (10 mM) |



Structural formula of dUDP

***For research use only!***

**Shipping:** shipped on blue ice

**Storage Conditions:** store at -20 °C

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

**Shelf Life:** 12 months after date of delivery

**Molecular Formula:** $C_9H_{14}N_2O_{11}P_2$ (free acid)

**Molecular Weight:** 388.16 g/mol (free acid)

**Exact Mass:** 388.01 g/mol (free acid)

**CAS#:** 4208-67-7

**Purity:** ≥ 95 % (HPLC)

**Form:** clear aqueous solution

**Concentration:** 10 mM - 11 mM

**pH:** 7.5 ±0.5

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

**Selected References:**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Hidalgo-Zarco *et al.* (2001) Kinetic properties and inhibition of the dimeric dUTPase-dUDPase from Leishmania major. *Protein Sci.* **10 (7)**: 1426.

Persson *et al.* (2001) Crystallization and preliminary crystallographic analysis of deoxyuridine 5 '-triphosphate nucleotidohydrolase from Bacillus subtilis. *Acta Cryst. D* **57**:876.

Prasad *et al.* (2000) Structures of feline immunodeficiency virus dUTP pyrophosphatase and its nucleotide complexes in three crystal forms. *Acta Cryst.* D **56**:1100.

Camacho *et al.* (2000) Properties of Leishmania major dUTP nucleotidehydrolase, a distinct nucleotide-hydrolysing enzyme in kinetoplastids. *Biochem. J.* **346**:163.

Dauter *et al.* (1999) Crystal structure of dUTPase from equine infectious anaemia virus, active site metal binding in a substrate analogue complex. *J. Mol. Biol.* **285 (2)**:655.

Dauter *et al.* (1998) The refined structure of dUTPase from Escherichia coli. *Acta Cryst. D* **54**:735.

Vertessy *et al.* (1998) The complete triphosphate moiety of non-hydrolyzable substrate analogues is required for a conformational shift of the flexible C-terminus in E-coli dUTP pyrophosphatase. *FEBS Lett.* **421 (1)**:83.

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Persson *et al.* (1997) Crystallization and preliminary X-ray crystallographic studies of dUTPase from equine infectious anemia virus. *Protein Peptide Lett.* **4 (2)**:145.

Larsson *et al.* (1996) Kinetic characterization of dUTPase from Escherichia coli. *J. Biol. Chem.* **271 (39)**:24010.

Larsson *et al.* (1996) Crystal structure of the Escherichia coli dUTPase in complex with a substrate analogue (dUDP). *Nat. Struct. Biol.* **3 (6)**:532.