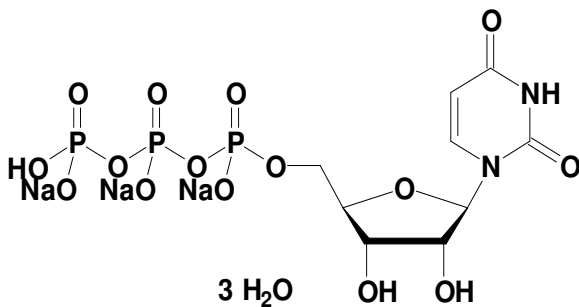


UTP

Uridine 5'-Triphosphate, sodium salt

	Cat. No.	Amount
	UTP_100G	100 g
	UTP_1000G	1000 g



For *in vitro* use only

Quality guaranteed for 12 months

Store at -20°C, short term (up to one week) exposure to ambient temperature possible

Purity

UTP ≥ 90.0%

Molecular Formula

C₉H₁₂N₂Na₂O₁₅P₃ × 3 H₂O

Molecular Weight

604.12 g/mol

Absorbance

absorbance max: 262 nm (pH 7)

ε at absorbance max: 9.8 l·mmol⁻¹·cm⁻¹

Applications

Activation of purinergic receptors^[1 - 4]

Cardioprotection against hypoxic damage^[2]

Enzyme kinetic parameters^[5]

Phosphorylation of EGF-receptor via purinergic receptors^[3]

Stimulation of neurogenesis and dopaminergic neurons^[6]

Specific Ligands

P2X1-like and P2Y-receptors^[4]

Enterovirus 71 3D RNA polymerase^[7]

Selected References:

- [1] Raqeeb *et al.* (2011) Purinergic P2Y2 receptors mediate rapid Ca²⁺ mobilization, membrane hyperpolarization and nitric oxide production in human vascular endothelial cells. *Cell Calcium* **49**:240.
- [2] Golan *et al.* (2011) Extracellular nucleotide derivatives protect cardiomyocytes against hypoxic stress. *Biochemical Pharmacology* **81**:1219.
- [3] Boucher *et al.* (2011) Distinct activation of epidermal growth factor receptor by UTP contributes to epithelial cell wound repair. *American Journal Pathology* **178**:1092.
- [4] Sugihara *et al.* (2011) Dual signaling pathway of arterial constriction by extracellular uridine-5-triphosphate in the rat. *J. Pharmacological Sciences (Japan)* **115**:293.
- [5] Ma *et al.* (2011) Molecular cloning and analysis of the UDP-glucose pyrophosphorylase in *Streptococcus equi* subsp. *Zooepidemicus*. *Molecular Biology Reports* **38**:2751.
- [6] Delic *et al.* (2011) Nucleotides affect neurogenesis and dopaminergic differentiation of mouse fetal midbrain-derived neural precursor cells. *Purinergic Signalling* **6**:417.
- [7] Jiang *et al.* (2011) Biochemical characterization of enterovirus 71 3D RNA polymerase. *Biochim. Biophys. Acta, Gene Regulatory Mechanisms* **1809**:211.