

Recombinant Uridine Phosphorylase *Salmonella typhimurium*

Cat. No. UPase-91Upase **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant <i>Salmonella typhimurium</i> Uridine phosphorylase produced in E.Coli is a non-glycosylated, polypeptide having a total molecular mass of 163068 Dalton.
Source	E.coli
Introduction	Uridine phosphorylase from <i>Salmonella typhimurium</i> (StUP) catalyzes the reversible phosphorolysis of uridine with the formation of ribose-1-phosphate and uracil.
Physical Appearance	Sterile Filtered white lyophilized powder.
Purity	Greater than 95.0% as determined by SDS-PAGE.
Formulation	The UPase was lyophilized from 1 mg/ml solution containing 25 mM Tris-HCl, pH 8.0, 0.15 M NaCl.
Solubility	It is recommended to reconstitute the lyophilized UPase in sterile 18 MΩ-cm H ₂ O not less than 100 g/ml, which can then be further diluted to other aqueous solutions.
Activity Determination	One unit phosphorylates 1 μM of uridine within 1 min at pH 7.3.
Enzyme Activity	30 U/mg protein.
Stability	Lyophilized UPase although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution UPase should be stored at 4°C

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between 2-7 days and for future use below -18°C. For long-term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.

GENE INFORMATION

Synonyms

EC 2.4.2.3; UrdPase; UPase; StUP; UDRPASE; UP; UPP; UPASE; OTTHUMP00000159566; UPase 1; UrdPase 1; uridine phosphorylase; uridine phosphorylase 1; UPH; pyrimidine phosphorylase; uridine:phosphate α -D-ribosyltransferase.

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