

**UPP1, 1-310aa, Human, His tag, E.coli**

**Cat.NO.: TP04433**

3th Edition

**Synonyms:**Uridine phosphorylase 1, UP, UPASE, UPP, UrdPase 1

**Description:**Uridine phosphorylase 1, also known as UPP1 catalyses the reversible phosphorolysis of uridine to uracil. The reaction products are then utilized as carbon and energy sources, or in the rescue of pyrimidine bases for nucleotide synthesis. The expression levels and the enzymatic activity of UPP1 are higher in human solid tumors than in adjacent normal tissues. In addition, UPP1 controls the homeostatic regulation of uridine concentration in plasma and tissues and plays a role in the intracellular activation of 5-fluorouracil. Recombinant human UPP1 protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.

**Form:**Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 1mM DTT, 40% glycerol, 200mM NaCl

**Molecular Weight:**36 kDa (330aa), confirmed by MALDI-TOF

**Sequences:**

MGSSHHHHHHSSGLVPRGSHMAATGANA EKAESHND CPVRL LNPNIAKMKEDILYHFNLTT SRHNF PALFGDVKF  
VCVGGSPSRMKAFIRCVGAELGLDCPGRDYPNICAGTD RYAMYKVG PVL SVSHGMGIP SISIMLHEL IKLLYARCS  
NVTIIRIGTSGGIGLEPGTVVITEQAVDTCFKA EFEQIVL GKR VIRKTDLNK KLVQELLLCSAELSEFTTVVGNTMCTLD  
FYEGQGRLDGALCSYTEKDKQAYLEAAYAAGVRNIEMESSVFAAMCSACGLQA AVVCVTLLNRLEGDQISSPRNVL  
SEYQQRQRLVSYFIKKLSKA

**Purity:**> 95% by HPLC

**Concentration:**0.25 mg/ml (determined by Bradford assay)

**Endotoxin Level:**<1.0 EU per 1 ug of protein (determined by LAL method)

**Storage:**Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.