

# Product information



## UPP1, 1- 310 aa

Human, His-tagged, Recombinant, *E.coli*

Cat. No. IBATGP0707

**Full name:** Uridine phosphorylase 1

**NCBI Accession No.:** NP\_853628

**Synonyms:** 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.

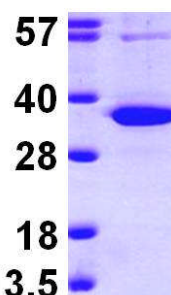
**Form:** Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 1mM DTT, 40% glycerol, 200mM NaCl

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

**Purity:** > 90% by SDS - PAGE

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

(kDa)



15% SDS-PAGE (3ug)

### Sequences of amino acids:

MGSSHHHHH SSGLVPRGSH MAATGANA EK AESHND CPVR LLNPNI AKMK EDILYHFNLT TSRHNF PALF GDVKFVCVGG SPSRMKAFIR  
CVGAELGLDC PGRDYPNICA GTDRYAMYKV GPVLSVSHGM GIPSISIMLH ELIKLLYYAR CSNVTIIRIG TSGGIGLEPG TVVITEQAVD  
TCFKAEFEQI VLGKRVIRKT DLNKKLVQEL LLCSAELSEF TTVVGNTMCT LDFYEQGQRL DGALCSYTEK DKQAYLEAAY AAGVRNIEME  
SSVFAAMCSA CGLQAAVVCV TLLNRLEGDQ ISSPRNVLSE YQQR PQRLVS YFIKKKLSKA

### General references:

**WARNING: THIS PRODUCT IS NOT INTENDED OR APPROVED FOR HUMAN, DIAGNOSTICS OR VETERINARY USE. USE OF THIS PRODUCT FOR HUMAN OR ANIMAL TESTING IS EXTREMELY HAZARDOUS AND MAY RESULT IN DISEASE, SEVERE INJURY, OR DEATH.**

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Kanzaki A., *et al.* (2002) *Int J Cancer*. 97(5):631-5.

Russll RL., *et al.* (2001) *J Biol Chem*. 276(16):13302-7.

**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.

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