

**UPRT, 1-309aa, Human, His tag, E.coli**

**Cat.NO.: TP04434**

3th Edition

**Synonyms:**Uracil phosphoribosyltransferase homolog, Uracil phosphoribosyltransferase (FUR1) homolog (S.cerevisiae), FUR1, RP11-311P8.3, UPP

**Description:**UPRT is a uracil phosphoribosyltransferase, which catalyzes the conversion of uracil and 5-phosphoribosyl-1-R-diphosphate to uridine monophosphate (UMP). This reaction is an important part of nucleotide metabolism, specifically the pyrimidine salvage pathway. The enzyme localizes to the nucleus and cytoplasm. The protein is a potential target for rational design of drugs to treat parasitic infections and cancer. Recombinant human UPRT 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 0.15M NaCl, 20% glycerol, 1mM DTT

**Molecular Weight:**36.2 kDa (332aa) confirmed by MALDI-TOF

**Sequences:**

MGSSHHHHHSSGLVPRGSHMGSMATELQCPDSMPCHNQQVNSASTPSPEQLRPGDLILDHAGGNRASRAKVL  
LTGYAHSSLPAELDSGACGGSSLNSEGNSGSGDSSSYDAPAGNSFLEDCELSRQIGAQLKLLPMNDQIRELQTIIRD  
KTASRGDFMFSADRLIRLVVEEGLNQLPYKECMVTTPTGYKYEGVKFEKGNCVGSIMRSGEAMEQGLRDCCRSIRI  
GKILIQSDEETQRAKVYYAKFPPDIYRRKVLMLYPILSTGNTVIEAVKVLIEHGVQPSVIILLSLFSTPHGAKSIIQEFPEI  
TILTTEVHPVAPTHFGQKYFGTD

**Purity:**> 95% by HPLC

**Concentration:**0.5 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.