

Recombinant Human UPRT protein, His-tagged

Cat. No. UPRT-2309H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human UPRT(1-309aa) fused with His tag at N-terminal was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	1-309 a.a.
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.
Form	Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 0.15M NaCl, 20% glycerol, 1mM DTT
Molecular Mass	36.2 kDa (332aa) confirmed by MALDI-TOF
AA Sequence	MGSSHHHHHH SSGLVPRGSH MGSMATELQC PDSMPCHNQQ VNSASTPSPE QLRPGDLILD HAGNRASRA KVILLTGYAH SSLPAELDSGACGGSSLNSE GNSGSGDSSS YDAPAGNSFL EDCELSRQIG AQLKLLPMND QIRELQTIIR DKTASRGDFM FSADRLIRLV VEEGLNQLPYKECMVTTPTG YKYEYGVKFEK GNCGVSIMRS GEAMEQGLRD CCRSIRIGKI LIQSDEETQR AKVYYAKFPP

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DIYRRKVLLM YPILSTGNTVIEAVKVLIEH GVQPSVILL SLFSTPHGAK SIIQEFPEIT
ILTTEVHPVA PTHFGQKYFG TD

Purity > 90% by SDS - PAGE

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

Concentration 0.5 mg/ml (determined by Bradford assay)

GENE INFORMATION

Gene Name UPRT uracil phosphoribosyltransferase (FUR1) homolog (*S. cerevisiae*) [*Homo sapiens*]

Official Symbol UPRT

Synonyms UPRT; uracil phosphoribosyltransferase (FUR1) homolog (*S. cerevisiae*); uracil phosphoribosyltransferase homolog; DKFZp781E1243; FUR1; MGC23937; RP11 311P8.3; UPRTase; UMP pyrophosphorylase; UPP; RP11-311P8.3;

Gene ID 139596

mRNA Refseq NM_145052

Protein Refseq NP_659489

MIM 300656

UniProt ID Q96BW1

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Chromosome Location	Xq13.3
Pathway	Metabolic pathways, organism-specific biosystem; Pyrimidine metabolism, organism-specific biosystem; Pyrimidine metabolism, conserved biosystem;

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