

Active Recombinant Human UPRT protein, His-GST-tagged

Cat. No. UPRT-1435H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Active Recombinant Human UPRT protein(Q96BW1)(75-297 aa), fused with N-terminal His tag and GST tag, was expressed in E.coli.
Species	Human
Source	E.coli
ProteinLength	75-297 aa
Form	PBS, pH7.4, containing 0.01% SKL, 1mM DTT, 5% Trehalose and Proclin300.
Bio-activity	Uracil Phosphoribosyltransferase (UPRT) is an important enzyme involved in the pyrimidine salvage pathway, which is a critical metabolic pathway for the synthesis of nucleotides in various organisms, including humans. This enzyme plays a key role in the conversion of uracil, a pyrimidine base, into uridine-5'-phosphate (UMP), a precursor for the synthesis of RNA and DNA. Besides, Purine Nucleoside Phosphorylase (PNP) has been identified as an interactor of UPRT, thus a functional binding ELISA assay was conducted to detect the interaction of recombinant human UPRT and recombinant mouse PNP. Briefly, UPRT was diluted serially in PBS with 0.01% BSA (pH 7.4). Duplicate samples of 100 µl were then transferred to PNP-coated microtiter wells and incubated for 1h at 37°C. Wells were washed with PBST and incubated for 1h with anti-UPRT pAb, then aspirated and washed 3 times. After incubation with HRP labelled secondary antibody for 1h at 37°C, wells were aspirated and washed 5 times. With the addition of substrate solution, wells were incubated 15-

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25 minutes at 37°C. Finally, add 50 µ stop solution to the wells and read at 450/630 nm immediately. The binding activity of recombinant human UPRT and recombinant mouse PNP was shown, the EC50 for this effect is 0.017 ug/mL.

Molecular Mass 54.7kDa

Endotoxin <1.0EU per 1µg (determined by the LAL method).

Purity > 90%

Storage Avoid repeated freeze/thaw cycles. Store at 2-8°C for one month. Store at -20°C for 12 months. Aliquot and store at -80°C for 12 months.

Reconstitution Reconstitute in 10mM PBS (pH7.4) to a concentration of 0.1-1.0 mg/mL. Do not vortex.

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

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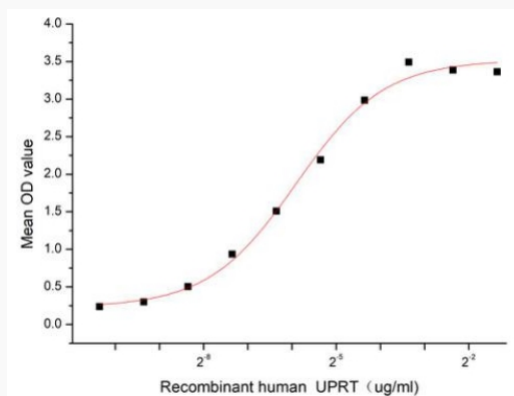
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Protein Refseq NP_659489

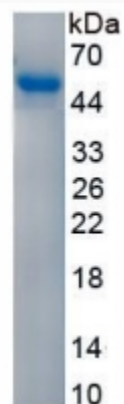
MIM 300656

UniProt ID Q96BW1

Activity



SDS-PAGE



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