

# Recombinant human HPRT1 protein

Catalog Number: ATGP0585

## PRODUCT INFORMATION

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**Expression system**

E.coli

**Domain**

1-218aa

**UniProt No.**

P00492

**NCBI Accession No.**

NP\_000185

**Alternative Names**

Hypoxanthine-guanine phosphoribosyltransferase, HGPRT, HGPRTase, HPRT, Hypoxanthine-guanine phosphoribosyltransferase HPRT 1, HPRT1, Hypoxanthine guanine phosphoribosyltransferase, Hypoxanthine phosphoribosyltransferase 1 (Lesch Nyhan syndrome), Hypoxanthine phosphoribosyltransferase 1.

## PRODUCT SPECIFICATION

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**Molecular Weight**

26.7 kDa (238aa) confirmed by MALDI-TOF

**Concentration**

0.5mg/ml (determined by Bradford assay)

**Formulation**

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing, 20% glycerol

**Purity**

&gt; 95% by SDS-PAGE

**Tag**

His-Tag

**Application**

SDS-PAGE

**Storage Condition**

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

## BACKGROUND

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**Description**

Hypoxanthine-guanine phosphoribosyltransferase, also known as HPRT1 has a central role in the generation of purine nucleotides through the purine salvage pathway. The enzyme primarily functions to salvage purines from degraded DNA to renewed purine synthesis. In this role, it acts as a catalyst in the reaction between guanine and phosphoribosyl pyrophosphate to form GMP. Recombinant human HPRT1, fused to His-tag at N-terminus, was

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expressed in E. coli and purified by using conventional chromatography techniques.

## Amino acid Sequence

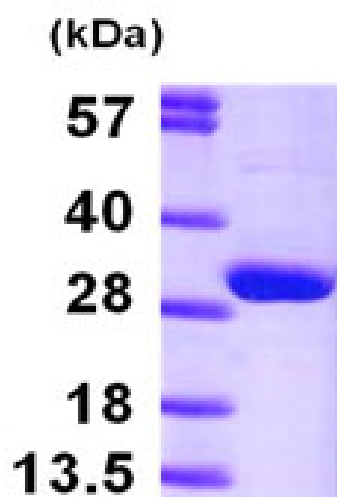
MGSSHHHHHHH SGLVPRGSH MATRSPGVVI SDDEPGYDLD LFCIPNHAYE DLERVFIPHG LIMDRTERLA RDVMKEMGGH  
HIVALCVLKG GYKFFADLLD YIKALNRNSD RSIPMTVDFI RLKSYCNDQS TGDIKVIGGD DLSTLTGKNV LIVEDIIDTG  
KTMQTLLSLV RQYNPKMVKV ASLLVKRTPR SVGYKPDFVG FEIPDKFVVG YALDYNEYFR DLNHVCVISE TGKAKYKA

## General References

Hladnik u., et al. (2008) Arch Neurol. 65(9):1240-3.  
Sculley DG., et al. (1992) Hum Genet. 90(3):195-207191.

## DATA

### SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

15% SDS-PAGE (3ug)