

Recombinant Human Hypoxanthine Phosphoribosyltransferase 1, His-tagged

Cat. No. HPRT1-1796H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human HPRT1, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques.
Species	Human
Source	Human
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.
Concentration	0.5 mg/ml
Form	Supplied as a liquid in 20mM Tris-HCl buffer, pH 8.0, containing 20% glycerol.
Purity	> 95% by SDS - PAGE
Sequence	1-218 amino acids: MGSSHHHHHH SSGLVPRGSH MATRSPGVVI SDDEPGYDLD LFCIPNHYAE DLERVFIPHG LIMDRTERLA RDVMKEMGGH HIVALCVLKG GYKFFADLLD YIKALNRNSD RSIPMTVDFI RLKSYCNDQS TGDIKVIGGD DLSTLTGKNV LIVEDIIDTG KTMQTLTSLV RQYNPKMVKV ASLLVKRTPR SVGYKPDFVG FEIPDKFVVG YALD

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Molecular Mass	26.7 kDa (238aa), confirmed by MALDI-TOF
Applications	SDS-PAGE
Storage	Store at 4 deg C for short term storage (1/2 weeks). Aliquot and store at -20 deg C or - 70 deg C for long term storage. Avoid repeated freeze/thaw cycles.

GENE INFORMATION

Gene Name	HPRT1 hypoxanthine phosphoribosyltransferase 1 [Homo sapiens]
Official Symbol	HPRT1
Synonyms	HPRT1; hypoxanthine phosphoribosyltransferase 1; HPRT; HGPRT; hypoxanthine-guanine phosphoribosyltransferase; HGPRTase; EC 2.4.2.8; Lesch-Nyhan syndrome
Gene ID	3251
mRNA Refseq	NM_000194
Protein Refseq	NP_000185
MIM	308000
UniProt ID	P00492
Chromosome Location	Xq26.1
Pathway	Drug metabolism - other enzymes; Metabolic pathways; Purine metabolism
Function	hypoxanthine phosphoribosyltransferase activity; magnesium ion binding; protein

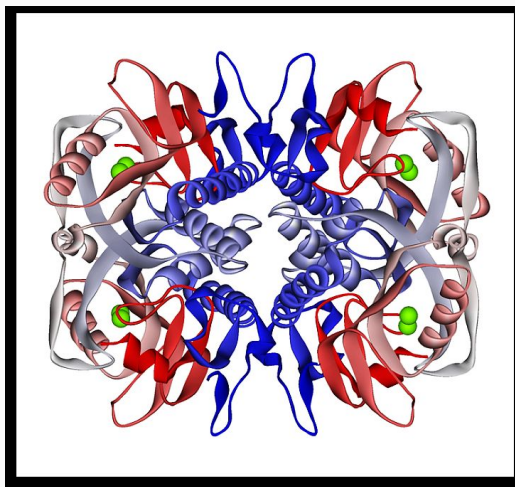
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binding; protein homodimerization activity; transferase activity, transferring glycosyl groups

**Ribbon diagram of
ahuman HPRT
tetramer. Magnesium
ions visible in green.
From PDB 1BZY.**



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