

Recombinant Human HPRT1, His-tagged

Cat. No. HPRT1-28755TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full length Human HPRT with an N-terminal His tag; 238 amino acids with a predicted MWt 26.7 kDa including tag.
Species	Human
Source	E.coli
ProteinLength	218 amino acids
Description	The protein encoded by this gene is a transferase, which catalyzes conversion of hypoxanthine to inosine monophosphate and guanine to guanosine monophosphate via transfer of the 5-phosphoribosyl group from 5-phosphoribosyl 1-pyrophosphate. This enzyme plays a central role in the generation of purine nucleotides through the purine salvage pathway. Mutations in this gene result in Lesch-Nyhan syndrome or gout.
Conjugation	HIS
Molecular Weight	26.700kDa inclusive of tags
Form	Liquid
Purity	>95% by SDS-PAGE
Storage buffer	pH: 8.00Constituents:0.32% Tris HCl, 20% Glycerol

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Storage	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
Sequences of amino acids	MGSSHHHHHH SSGLVPRGSH MATRSPGVVI SDDEPGYDLD LFCIPNHYAE DLERVFIPIHG LIMDRTERLA RDVMKEMGGH HIVALCVLKG GYKFFADLLD YIKALNRNSD RSIPMTVDFI RLKSYCNDQS TGDIKVIGGD DLSTLTGKNV LIVEDIIDTG KTMQTLTSLV RQYNPKMVKV ASLLVKRTPR SVGYKPDFVG FEIPDKFVVG YALDYNEYFR DLNHVCVISE TGKAKYKA
Sequence Similarities	Belongs to the purine/pyrimidine phosphoribosyltransferase family.
GENE INFORMATION	
Gene Name	HPRT1 hypoxanthine phosphoribosyltransferase 1 [Homo sapiens]
Official Symbol	HPRT1
Synonyms	HPRT1; hypoxanthine phosphoribosyltransferase 1; HPRT; hypoxanthine-guanine phosphoribosyltransferase; HGPRT; Lesch Nyhan syndrome;
Gene ID	3251
mRNA Refseq	NM_000194
Protein Refseq	NP_000185
MIM	308000
Uniprot ID	P00492
Chromosome Location	Xq26.2

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Pathway	Drug metabolism - other enzymes, organism-specific biosystem; Drug metabolism - other enzymes, conserved biosystem; Metabolic pathways, organism-specific biosystem; Metabolism, organism-specific biosystem; Metabolism of nucleotides, organism-specific biosystem;
Function	guanine phosphoribosyltransferase activity; hypoxanthine phosphoribosyltransferase activity; hypoxanthine phosphoribosyltransferase activity; magnesium ion binding; nucleotide binding;

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