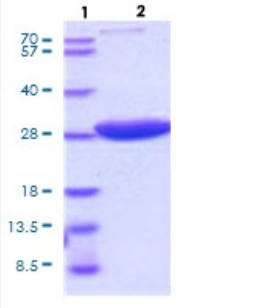
Bioactive Full-Length

HPRT1 (Human) Recombinant Protein

Catalog # P7992 Size 100 ug

Applications



Specification

Product Description	Human HPRT1 (P00492, 1 a.a. - 218 a.a.) full length recombinant protein with His tag expressed in *E scherichia coli*.
Sequence	MATRSPGVVISDDEPGYDLDLFCIPNHYAEDLERVFIPHGLIMDRTERLARDVMKEMGGHHIVALC VLKGGYKFFADLLDYIKALNRNSDRSIPMTVDFIRLKSYCNDQSTGDIKVIGGDDLSTLTGKNVLIVE DIIDTGKTMQTLLSLVRQYNPKMVKVASLLVKRTPRSVGYKPDFVGFEIPDKFVVGYALDYNEYFR DLNHVCVISETGKAKYKA
Host	Escherichia coli
Theoretical MW (kDa)	26.7
Form	Liquid
Preparation Method	*Escherichia coli* expression system
Purity	> 95% by SDS-PAGE
Activity	Specific activity is > 15 unit/mg, and is defined as the amount of enzyme that catalyze the formation o f 1 umole of guanosine 5-monophosphate(GMP) per minute from guanine and phosphoribosyl pyrop hosphate at pH 7.5 at 37°C.
Quality Control Testing	3 ug by SDS-PAGE under reducing condition and visualized by Coomassie blue stain.

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Storage Buffer	In 20mM Tris-HCl pH 8.0 (20% glycerol)
Storage Instruction	Store at 2°C to 8°C for 1 week. For long term storage, aliquot and store at -20°C to -80°C. Aliquot to avoid repeated freezing and thawing.

Applications

- Functional Study
- SDS-PAGE

Gene Info — HPRT1

Entrez GeneID	3251
Protein Accession#	P00492
Gene Name	HPRT1
Gene Alias	HGPRT, HPRT
Gene Description	hypoxanthine phosphoribosyltransferase 1
Omim ID	300322 300323 308000
Gene Ontology	Hyperlink
Gene Summary	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-phosphor ibosyl group from 5-phosphoribosyl 1-pyrophosphate. This enzyme plays a central role in the gene ration of purine nucleotides through the purine salvage pathway. Mutations in this gene result in Le sch-Nyhan syndrome or gout
Other Designations	-

Pathway

- Drug metabolism - other enzymes
- Metabolic pathways
- Purine metabolism

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Disease

- Arthritis
- Colitis
- Crohn Disease
- DNA Damage
- Genetic Predisposition to Disease
- Inflammatory Bowel Diseases
- Lead Poisoning
- Leukopenia
- Lung Neoplasms
- Osteoarthritis

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