

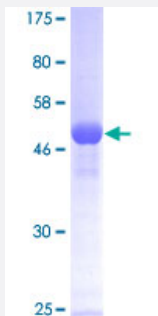
Full-Length

HPRT1 (Human) Recombinant Protein (P01)

Catalog # H00003251-P01

Size 25 ug, 10 ug

Applications



Specification

Product Description	Human HPRT1 full-length ORF (AAH00578, 1 a.a. - 218 a.a.) recombinant protein with GST-tag at N-terminal.
Sequence	MATRSPGVVISDDEPGYDLDFCIPNHYAEDLERVFIPHGLIMDRTERLARDVMKEMGGHHVALC VLKGGYKFFADLLDYKALNRNSDRSIPMTVDFIRLKSVCNDQSTGDIKVI GGDDLSTLTGKNVLVE DIIDTGKTMQTLLSLVRQYNPKMVKVASLLVKRTPRSVGYKPDFVGFEIPDKFVVGALDYNEYFR DLNHVCVISETGKAKYKA
Host	Wheat Germ (in vitro)
Theoretical MW (kDa)	49.72
Preparation Method	in vitro wheat germ expression system
Purification	Glutathione Sepharose 4 Fast Flow
Quality Control Testing	12.5% SDS-PAGE Stained with Coomassie Blue.
Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
Storage Instruction	Store at -80°C. Aliquot to avoid repeated freezing and thawing.
Note	Best use within three months from the date of receipt of this protein.

Applications

- Enzyme-linked Immunoabsorbent Assay
- Western Blot (Recombinant protein)
- Antibody Production
- Protein Array

Gene Info — HPRT1

Entrez GeneID [3251](#)

GeneBank Accession# [BC000578](#)

Protein Accession# [AAH00578](#)

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-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

Other Designations -

Pathway

- [Drug metabolism - other enzymes](#)
- [Metabolic pathways](#)
- [Purine metabolism](#)

Disease

- [Arthritis](#)
- [Colitis](#)
- [Crohn Disease](#)
- [DNA Damage](#)
- [Genetic Predisposition to Disease](#)
- [Inflammatory Bowel Diseases](#)
- [Lead Poisoning](#)
- [Leukopenia](#)
- [Lung Neoplasms](#)
- [Osteoarthritis](#)