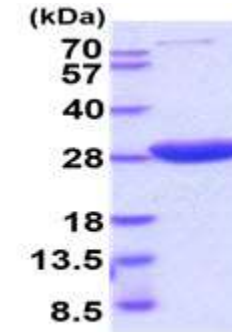


## HPRT1, human recombinant

|                             |  |       |
|-----------------------------|--|-------|
| <b>CATALOG NO:</b>          | P1092-10   | 10 µg |
|                             | P1092-50   | 50 µg |
| <b>ALTERNATE NAMES:</b>     | Hypoxanthine-guanine phosphoribosyltransferase, GPRT, HGPRase, HPRT  |       |
| <b>CONCENTRATION:</b>       | 0.5 mg/ml (determined by Bradford assay)   |       |
| <b>SOURCE:</b>              | <i>E.coli</i> expressed recombinant HPRT protein, fused to His-tag at N-terminus (1-218aa).  |       |
| <b>PURITY:</b>              | > 95% by SDS-PAGE  |       |
| <b>MOL. WEIGHT:</b>         | This protein is fused with 6x His tag at N terminus and the protein has a calculated MW of 26.7 kDa (218aa).   |       |
| <b>FORM:</b>                | Liquid   |       |
| <b>FORMULATION:</b>         | In 20 mM Tris-HCl buffer (pH8.0) containing 20% glycerol   |       |
| <b>STORAGE CONDITIONS:</b>  | Store at +4°C for short term (1-2 weeks). For long term storage, aliquot and store at -70°C. Avoid repeated freeze/thaw cycles.  |       |
| <b>SEQUENCE:</b>            | <p>MGSSHHHHHH SSGLVPRGSH MATRSPGVVI SDDEPGYDLD<br/> LFCIPNHYAE DLERVFIPHG LIMDRTERLA RDVMKEMGGH<br/> HIVALCVLKG GYKFFADLLD YIKALNRNSD RSIPMTVDFI<br/> RLKSYCNDQS TGDIVIGGD DLSTLTGKNV LIVEDIIDTG<br/> KTMQTLTSLV RQYNPKMKV ASLLVKRTPR SVGYKPDFVG<br/> FEIPDKFVVG YALDYNEYFR DLNHVCVISE TGKAKYKA</p>  |       |
| <b>DESCRIPTION:</b>         | <p>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 expressed in <i>E.coli</i> and purified by using conventional chromatography techniques.</p> |       |
| <b>BIOLOGICAL ACTIVITY:</b> | <p>Specific activity is &gt;15 units/mg and is defined as the amount of enzyme that catalyze the formation of 1 umole of guanosine 5-monophosphate (GMP) per minute from guanine and phosphoribosyl pyrophosphate at pH 7.5 at 37C.</p>  |       |



15% SDS-PAGE (3µg)

Human recombinant HPRT

### RELATED PRODUCT:

- Histone Protein (**Cat. No. 1136-10**)
- Histone H2A (1-129 aa), Xenopus recombinant (**Cat. No. 7668-100, -250**)
- Histone H2B (1-123 aa), Xenopus recombinant (**Cat. No. 7669-100, -250**)
- Histone H3 (1-136 aa), Human recombinant (**Cat. No. 7670-100, -250**)
- Histone H4 (1-103 aa), Human recombinant (**Cat. No. 7671-100, -250**)

**FOR RESEARCH USE ONLY! Not to be used on humans.**