

Product information

HPRT1, 1- 218 aa

Human, His-tagged, Recombinant, *E.coli*

Cat. No. IBATGP3466

Full name: Hypoxanthine-guanine phosphoribosyltransferase

NCBI Accession No.: NP_000185

Synonyms: HGPRT, HGPRTase, HPRT

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. Recombinant human HPRT1, fused to His-tag at N-terminus, was expressed in *E.coli* and purified by using conventional chromatography techniques.

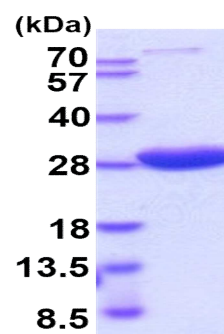
Form: Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing, 20% glycerol

Molecular Weight: 26.7 kDa (238aa), confirmed by MALDI-TOF

Purity: > 95% by SDS – PAGE

Concentration: 0.5mg/ml (determined by Bradford assay)

Biological activity: Specific activity is > 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.



15% SDS-PAGE (3ug)

Sequences of amino acids:

MGSSHHHHHH SSGLVPRGSH MATRSPGVVI SDDEPGYDLD LFCIPNHAE DLERVFIPHG LIMDRTERLA RDVMKEMGGH HIVALCVLKG
 GYKFFADLLD YIKALNRNSD RSIPTVDFI RLKSYCNDQS TGDIVIGGD DLSTLTGKNV LIVEDIIDTG KTMQTLTSLV RQYNPKMKVK
 ASLLVKRTPR SVGYKPDFVG FEIPDKFVVG YALDYNEYFR DLNHVCVISE TGKAKYKA

General references:

Hladnik U., *et al.* (2008) *Arch Neurol.* 65(9):1240-3.

Sculley DG., *et al.* (1992) *Hum Genet.* 90(3):195-207191.

Storage: Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C.
 Avoid repeated freezing and thawing cycles.

For research use only. This product is not intended or approved for human, diagnostics or veterinary use.



Manufactured for:

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