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AR09522PU-L Human HPRT1 / HPRT (1-218, His-tag) - Purified

Alternate names: HGPRT, HGPRTase, Hypoxanthine-guanine phosphoribosyltransferase

Quantity: 0.5 mg

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

Background: 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.

Uniprot ID: P00492

NCBI: NP_000185

GeneID: 3251

Species: Human

Source: E. coli

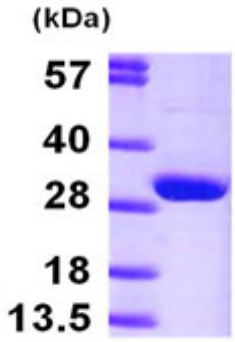
Format:
State: Liquid purified protein
Purity: >95% by SDS – PAGE
Buffer System: 20mM Tris-HCl buffer (pH 8.0) containing 20% glycerol

Description: Recombinant human HPRT1, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.
AA Sequence:
MGSSHHHHHH SSGLVPRGSH MATRSPGVVI SDDEPGYDLD LFCIPNHYAE DLERVFIPHG
LIMDRTERLA RDVMKEMGGH HIVALCVLKG GYKFFADLLD YIKALNRNSD RSIPMTVDFI
RLKSYCNDQS TGDIKVIGGD DLSTLTGKNV LIVEDIIDTG KTMQTLLSLV RQYNPKMVKV
ASLLVKRTPR SVGYKPDFVG FEIPDKFVVG YALDYNEYFR DLNHVCVISE TGKAKYKA
Molecular weight: 26.7 kDa (238aa), confirmed by MALDI-TOF

Storage: Store undiluted at 2-8°C for up to two weeks or (in aliquots) at -20°C or -70°C for longer.
Avoid repeated freezing and thawing.
Shelf life: one year from despatch.

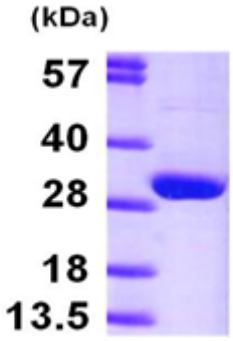
General Readings: Hladnik U., et al. (2008) Arch Neurol. 65(9):1240-3.

Pictures:



15% SDS-PAGE (3ug)

Recombinant human HPRT1, 1- 218 aa, His-tagged



15% SDS-PAGE (3ug)