Recombinant human HPRT1 protein

Catalog Number: ATGP0585

PRODUCT INFORMATION

Expression system
E.coli

Domain
1-218aa

UniProt No.
P00492

NCBI Accession No.
NP_000185

Alternative Names
Hypoxanthine-guanine phosphoribosyltransferase, HGPRT, HGPRTase, HPRT, Hypoxanthine-guanine phosphoribosyltransferase HPRT 1, HPRT1, Hypoxanthine guanine phosphoribosyltransferase, Hypoxanthine phosphoribosyltransferase 1 (Lesch Nyhan syndrome), Hypoxanthine phosphoribosyltransferase 1.

PRODUCT SPECIFICATION

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

Concentration
0.5mg/ml (determined by Bradford assay)

Formulation
Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing, 20% glycerol

Purity
> 95% by SDS-PAGE

Tag
His-Tag

Application
SDS-PAGE

Storage Condition
Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

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.

Amino acid Sequence

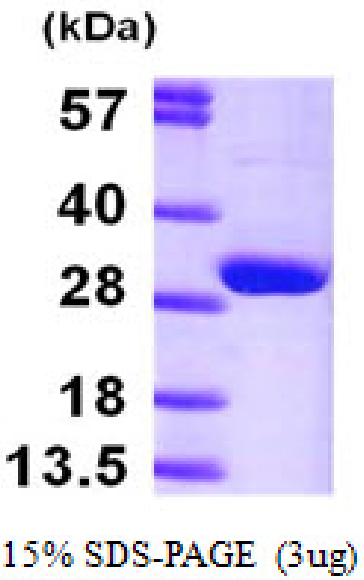
MGSSHHHHHH SSGLVPRGSH MATRSPGVVI SDDEPGYDLD LFCIPNHYAE DLERVFIPHG LIMDRTERLA RDVMKEMGGH HIVALCVLKG GYKFFADLLD YIKALNRNSD RSIPMTVDFI RLKSYCNDQS TGDIKVIGGD DLSTLTGKNV LIVEDIIDTG KTMQTLLSLV RQYNPKMVKV ASLLVKRTPR SVGYKPDFVG FEIPDKFVVG YALDYNEYFR DLNHVCVISE TGKAKYKA

General References

Hladnik u., et al. (2008) Arch Neurol. 65(9):1240-3.
Sculley DG., et al. (1992) Hum Genet. 90(3):195-207191.

DATA

SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.