abcam

Product datasheet

Recombinant Human HPRT protein ab97411

2 Images

Description

Product name	Recombinant Human HPRT protein
Purity	> 95 % SDS-PAGE. ab97411 is purified using conventional chromatography techniques.
Expression system	Escherichia coli
Accession	**P00492**
Protein length	Full length protein
Animal free	No
Nature	Recombinant
Species	Human
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
Predicted molecular weight	27 kDa
Amino acids	1 to 218
Tags	His tag N-Terminus

Specifications

Our **Abpromise guarantee** covers the use of **ab97411** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Applications	SDS-PAGE Mass Spectrometry Western blot
Mass spectrometry	MALDI-TOF-TOF
Form	Liquid

Preparation and Storage

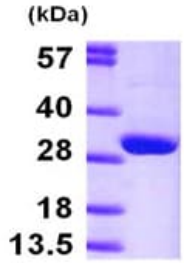
Preparation and Storage

Stability and Storage	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles. pH: 8.00 Constituents: 0.316% Tris HCl, 20% Glycerol (glycerin, glycerine)

General Info

Function	Converts guanine to guanosine monophosphate, and hypoxanthine to inosine monophosphate. Transfers the 5-phosphoribosyl group from 5-phosphoribosylpyrophosphate onto the purine. Plays a central role in the generation of purine nucleotides through the purine salvage pathway.
Pathway	Purine metabolism; IMP biosynthesis via salvage pathway; IMP from hypoxanthine: step 1/1.
Involvement in disease	Defects in HPRT1 are the cause of Lesch-Nyhan syndrome (LNS) [MIM:300322]. LNS is characterized by complete lack of enzymatic activity that results in hyperuricemia, choreoathetosis, mental retardation, and compulsive self-mutilation. Defects in HPRT1 are the cause of gout HPRT-related (GOUT-HPRT) [MIM:300323]; also known as HPRT-related gout or Kelley-Seegmiller syndrome. Gout is characterized by partial enzyme activity and hyperuricemia.
Sequence similarities	Belongs to the purine/pyrimidine phosphoribosyltransferase family.
Cellular localization	Cytoplasm.

Images



SDS-PAGE - Recombinant Human HPRT protein (ab97411)

15% SDS-PAGE showing ab97411 at approximately 26.7kDa (3µg).

Western blot - Recombinant Human HPRT protein (ab97411)

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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