abcam

Product datasheet

Recombinant Human Inosine triphosphate pyrophosphatase protein ab123470

1 References

概述

产品名称	重组人Inosine triphosphate pyrophosphatase蛋白
蛋白长度	Full length protein

描述

性质	Recombinant
来源	Escherichia coli

氨基酸序列

Accession	Q9BY32
种属	Human
序列	MGSSHHHHHH SSGLVPRGSH MMAASLVGKK IVFVTGNAKK LEEVVQILGD KFPCTLVAQK IDLPEYQGEP DEISIQKCQE AVRQVQGPVL VEDTCLCFNA LGGLPGPYIK WFLEKLKPEG LHQLLAGFED KSAYALCTFA LSTGDPSQPV RLFRGRTSGR IVAPRGCQDF GWDPCFQPDG YEQTYAEMPK AEKNAVSHRF RALLELQEYF GSLAA
分子量	24 kDa including tags
氨基酸	1 to 194
标签	His tag N-Terminus

技术指标

Our Abpromise guarantee covers the use of **ab123470** in the following tested applications.

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

应用	SDS-PAGE
纯度	> 95 % SDS-PAGE. ab123470 was purified by proprietary chromatographic techniques and filter sterilized.
形式	Liquid
补充说明	Although stable at 4°C for 1 week, ab123470 should be stored desiccated below -18°C. Please

	prevent freeze thaw cycles

制备和贮存

稳定性和存储	Shipped at 4°C. Please see notes section. pH: 8.00 Constituents: 0.24% Tris, 10% Glycerol

常规信息

功能	Hydrolyzes ITP and dITP to their respective monophosphate derivatives. Xanthosine 5'-triphosphate (XTP) is also a potential substrate. May be the major enzyme responsible for regulating ITP concentration in cells.
组织特异性	Ubiquitous. Highly expressed in heart, liver, sex glands, thyroid and adrenal gland.
疾病相关	Defects in ITPA are the cause of inosine triphosphate pyrophosphohydrolase deficiency (ITPA deficiency) [MIM:147520]. It is a common inherited trait characterized by the abnormal accumulation of inosine triphosphate (ITP) in erythrocytes and also leukocytes and fibroblasts. The pathological consequences of ITPA deficiency, if any, are unknown. However, it might have pharmacogenomic implications and be related to increased drug toxicity of purine analog drugs. Three different human populations have been reported with respect to their ITPase activity: high, mean (25% of high) and low activity. The variant Thr-32 is associated with complete loss of enzyme activity, may be by altering the local secondary structure of the protein. Heterozygotes for this polymorphism have 22.5% of the control activity: this is consistent with a dimeric structure of the enzyme.
序列相似性	Belongs to the HAM1 NTPase family.
细胞定位	Cytoplasm.

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