abcam

Product datasheet

Recombinant human PGK1 protein ab211320

1 References 1 Image

Description

Product name	Recombinant human PGK1 protein
Biological activity	Specific activity: > 600 units/mg. One unit will convert 1 umole of 1,3-Bisphosphoglycerate to 3-PGA per minute at pH 8.0 at 37°C.
Purity	> 95 % SDS-PAGE. ab211320 was purified using conventional chromatography techniques.
Endotoxin level	< 1.000 Eu/µg
Expression system	Escherichia coli
Accession	P00558
Protein length	Full length protein
Animal free	No
Nature	Recombinant
Species	Human
Sequence	MGSSHHHHHHSSGLVPRGSHMSLSNKLTLDKLDVKGKR VVMRVDFNVPMK NNQITNNQRIKAAVPSIKFCLDNGAKSVVLMSHLGRPDGV PMPDKYSLEP VAVELKSLLGKDVLFLKDCVGPEVEKACANPAAGSVILLE NLRFHVEEEG KGKDASGNKVKAEPAKIEAFRASLSKLGDVYVNDAFGTA HRAHSSMVGVN LPQKAGGFLMKKELNYFAKALESPERPFLAILGGAKVADK IQLINNMLDK VNEMIIGGGMAFTFLKVLNNMEIGTSLFDEEGAKIVKDLMS KAEKNGVKI TLPVDFVTADKFDENAKTGQATVASGIPAGWMGLDCGPE SSKKYAEAVTR AKQIVWNGPVGVFEWEAFARGTKALMDEVVKATSRGCITI IGGGDTATCC AKWNTEDKVSHVSTGGGASLELLEGKVLPGVDALSNI
Predicted molecular weight	47 kDa including tags
Amino acids	1 to 417
Tags	His tag N-Terminus

Additional sequence information	NP_000282.

Specifications

Our **Abpromise guarantee** covers the use of **ab211320** in the following tested applications.

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

Applications	Mass Spectrometry SDS-PAGE Functional Studies
Mass spectrometry	MALDI-TOF
Form	Liquid

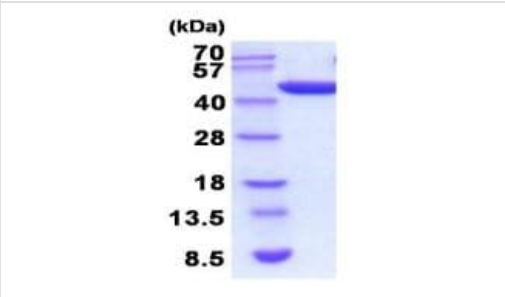
Preparation and Storage

Stability and Storage	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle. pH: 8.00 Constituents: 0.32% Tris HCl, 10% Glycerol (glycerin, glycerine), 0.02% DTT This product is an active protein and may elicit a biological response in vivo, handle with caution.

General Info

Function	In addition to its role as a glycolytic enzyme, it seems that PGK-1 acts as a polymerase alpha cofactor protein (primer recognition protein).
Pathway	Carbohydrate degradation; glycolysis; pyruvate from D-glyceraldehyde 3-phosphate: step 2/5.
Involvement in disease	Defects in PGK1 are the cause of phosphoglycerate kinase 1 deficiency (PGK1D) [MIM:300653]. It is a condition with a highly variable clinical phenotype that includes hemolytic anemia, rhabdomyolysis, myopathy and neurologic involvement. Patients can express one or more of these manifestations.
Sequence similarities	Belongs to the phosphoglycerate kinase family.
Cellular localization	Cytoplasm.

Images



SDS-PAGE - Recombinant human PGK1 protein (ab211320)

15% SDS-PAGE analysis of ab211320 (3µg).

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

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