antibodies

Datasheet for ABIN3086077 Phosphoglucomutase 5 Protein (PGM5) (AA 1-567) (Strep Tag)

Image



Overview

Quantity:	1 mg
Target:	Phosphoglucomutase 5 (PGM5)
Protein Characteristics:	AA 1-567
Origin:	Human
Source:	Tobacco (Nicotiana tabacum)
Protein Type:	Recombinant
Purification tag / Conjugate:	This Phosphoglucomutase 5 protein is labelled with Strep Tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS), ELISA

Product Details

	system, a different complexity of the protein could make another tag necessary. In case you
	Sequence without tag. The proposed Strep-Tag is based on experience s with the expression
	LSPLIAIALK ISQIHERTGR RGPTVIT
	YVDPVDGTVT KKQGLRIIFS DASRLIFRLS SSSGVRATLR LYAESYERDP SGHDQEPQAV
	HWAKFGRHYY CRFDYEGLDP KTTYYIMRDL EALVTDKSFI GQQFAVGSHV YSVAKTDSFE
	PAGWRFFSNL MDSGRCNLCG EESFGTGSDH LREKDGLWAV LVWLSIIAAR KQSVEEIVRD
	ILGQNGFFVS PSDSLAIIAA NLSCIPYFRQ MGVRGFGRSM PTSMALDRVA KSMKVPVYET
	VLCDELGAPA NSAINCVPLE DFGGQHPDPN LTYATTLLEA MKGGEYGFGA AFDADGDRYM
	DLENKFKPFR VEIVDPVDIY LNLLRTIFDF HAIKGLLTGP SQLKIRIDAM HGVMGPYVRK
	ASHCPGGPGG EFGVKFNVAN GGPAPDVVSD KIYQISKTIE EYAICPDLRI DLSRLGRQEF
	TMVVGSDGRY FSRTAIEIVV QMAAANGIGR LIIGQNGILS TPAVSCIIRK IKAAGGIILT
Sequence:	MEGSPIPVLT VPTAPYEDQR PAGGGGLRRP TGLFEGQRNY LPNFIQSVLS SIDLRDRQGC

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	have a special request, please contact us.
Characteristics:	Key Benefits:
	 Made in Germany - from design to production - by highly experienced protein experts. Protein expressed with ALiCE® and purified by multi-step, protein-specific process to ensure correct folding and modification. These proteins are normally active (enzymatically functional) as our customers have reported (not tested by us and not guaranteed). State-of-the-art algorithm used for plasmid design (Gene synthesis).
	This protein is a made-to-order protein and will be made for the first time for your order. Our
	experts in the lab will ensure that you receive a correctly folded protein.
	The big advantage of ordering our made-to-order proteins in comparison to ordering custom
	made proteins from other companies is that there is no financial obligation in case the protein
	cannot be expressed or purified.
	Expression System:
	 ALICE®, our Almost Living Cell-Free Expression System is based on a lysate obtained from Nicotiana tabacum c.v This contains all the protein expression machinery needed to produce even the most difficult-to-express proteins, including those that require post-translational modifications. During lysate production, the cell wall and other cellular components that are not required fo protein production are removed, leaving only the protein production machinery and the mitochondria to drive the reaction. During our lysate completion steps, the additional components needed for protein production (amino acids, cofactors, etc.) are added to produce something that functions like a cell, but without the constraints of a living system - all that's needed is the DNA that codes for the desired protein!
	Concentration:
	 The concentration of our recombinant proteins is measured using the absorbance at 280nm The protein's absorbance will be measured in several dilutions and is measured against its specific reference buffer. We use the Expasy's ProtParam tool to determine the absorption coefficient of each protein.
Purification:	Two step purification of proteins expressed in Almost Living Cell-Free Expression System (ALiCE®):
	1. In a first purification step, the protein is purified from the cleared cell lysate using StrepTag capture material. Eluate fractions are analyzed by SDS-PAGE.

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	 Protein containing fractions of the best purification are subjected to second purification step through size exclusion chromatography. Eluate fractions are analyzed by SDS-PAGE and Western blot.
Purity:	>80 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.
Endotoxin Level:	Low Endotoxin less than 1 EU/mg (< 0.1 ng/mg)
Grade:	Crystallography grade
Target Details	
Target:	Phosphoglucomutase 5 (PGM5)
Alternative Name:	PGM5 (PGM5 Products)
Background:	Phosphoglucomutase-like protein 5 (Aciculin) (Phosphoglucomutase-related protein) (PGM- RP),FUNCTION: Component of adherens-type cell-cell and cell-matrix junctions (PubMed:8175905). Has no phosphoglucomutase activity in vitro (PubMed:8175905). {ECO:0000269 PubMed:8175905}.
Molecular Weight:	62.2 kDa
UniProt:	Q15124
Pathways:	Cellular Glucan Metabolic Process
Application Details	
Application Notes:	In addition to the applications listed above we expect the protein to work for functional studies as well. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.
Comment:	 ALICE®, our Almost Living Cell-Free Expression System is based on a lysate obtained from Nicotiana tabacum c.v This contains all the protein expression machinery needed to produce even the most difficult-to-express proteins, including those that require post-translational modifications. During lysate production, the cell wall and other cellular components that are not required for protein production are removed, leaving only the protein production machinery and the mitochondria to drive the reaction. During our lysate completion steps, the additional components needed for protein production (amino acids, cofactors, etc.) are added to produce something that functions like a cell, but without the constraints of a living system - all that's needed is the DNA that codes for the desired protein!

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Application Details

Restrictions:

For Research Use only

Handling

Format:	Liquid
Buffer:	The buffer composition is at the discretion of the manufacturer. If you have a special request, please contact us.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	Unlimited (if stored properly)

Images



Image 1. "Crystallography Grade" protein due to multi-step, protein-specific purification process