

Datasheet for ABIN7547843

G6PC Protein (AA 1-357) (His tag)



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Overview

Quantity:	1 mg
Target:	G6PC
Protein Characteristics:	AA 1-357
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This G6PC protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant G6PC1 Protein expressed in mammalian cells.
Sequence:	<p> MEEGMNVLHD FGIQSTHYLQ VNYQDSQDWF ILVSVIADLR NAFYVLFPIW FHLQEAVGIK LLWVAVIGDW LNLVFKWILF GQRPYWWVLD TDYYSNTSVP LIKQFPVTCE TGPSPSGHA MGTAGVYYVM VTSTLSIFQG KIKPTYRFRC LNVILWLGFW AVQLNVCLSR IYLAHFPHQ VVAGVLSGIA VAETFSHIHS IYNASLKKYF LITFFLFSFA IGFYLLLKGL GVDLLWTLEK AQRWCEQPEW VHIDTTPFAS LLKNLGTFLG LGLALNSSMY RESCKGKLSK WLPFRLSSIV ASLVLLHVFD SLKPPSQVEL VFYVLSFCKS AVVPLASVSV IPYCLAQVLG QPHKKSL </p> <p>Sequence without tag. The proposed Purification-Tag is based on experiences with the expression system, a different complexity of the protein could make another tag necessary. In case you have a special request, please contact us.</p>
Specificity:	If you are looking for a specific domain and are interested in a partial protein or a different isoform, please contact us regarding an individual offer.
Characteristics:	Key Benefits:

Product Details

- Made to order protein - from design to production - by highly experienced protein experts.
- Protein expressed in mammalian cells and purified in one-step affinity chromatography
- The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins.
- 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 try to ensure that you receive soluble protein.

If you are not interested in a full length protein, please contact us for individual protein fragments.

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.

Purity:	> 90 % as determined by Bis-Tris PAGE, anti-tag ELISA, Western Blot and analytical SEC (HPLC)
Grade:	custom-made

Target Details

Target:	G6PC
Alternative Name:	G6PC1 (G6PC Products)
Background:	Glucose-6-phosphatase catalytic subunit 1 (EC 3.1.3.9) (Glucose-6-phosphatase) (G-6-Pase) (G6Pase) (Glucose-6-phosphatase alpha) (G6Pase-alpha),FUNCTION: Hydrolyzes glucose-6-phosphate to glucose in the endoplasmic reticulum. Forms with the glucose-6-phosphate transporter (SLC37A4/G6PT) the complex responsible for glucose production in the terminal step of glycogenolysis and gluconeogenesis. Hence, it is the key enzyme in homeostatic regulation of blood glucose levels. {ECO:0000269 PubMed:10960498, ECO:0000269 PubMed:12093795, ECO:0000269 PubMed:15542400, ECO:0000269 PubMed:9332655, ECO:0000269 PubMed:9497333}.
Molecular Weight:	40.5 kDa
UniProt:	P35575
Pathways:	Carbohydrate Homeostasis , Cellular Glucan Metabolic Process

Application Details

Application Notes:	We expect the protein to work for functional studies. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.
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Restrictions:	For Research Use only
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Handling

Format:	Liquid
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Buffer:	The buffer composition is at the discretion of the manufacturer.
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Handling Advice:	Avoid repeated freeze-thaw cycles.
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Storage:	-80 °C
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Storage Comment:	Store at -80°C.
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Expiry Date:	12 months
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