

Datasheet for ABIN3107268

G6PC2 Protein (AA 1-355) (rho-1D4 tag)**4** Images[Go to Product page](#)

Overview

Quantity:	1 mg
Target:	G6PC2
Protein Characteristics:	AA 1-355
Origin:	Human
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This G6PC2 protein is labelled with rho-1D4 tag.
Application:	Crystallization (Crys), ELISA, SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Sequence:	<p>MDFLHRNGVL IIQHLQKDYR AYYTFLNFMS NVGDPRNIF IYPLCFQFN QTVGTKMIWV AVIGDWLNL I FKWILFGHRP YWWVQETQIY PNHSSPCLEQ FPTTCETGPG SPSGHAMGAS CVWYVMVTAA LSHTVCGMDK FSITLHRLTW SFLWSVFWLI QISVCISRVF IATHFPHQVI LGVIGGMLVA EAFEHTPGIQ TASLGTYLKT NLFLFLFAVG FYLLLRVLNI DLLWSVPIAK KWCANPDWIH IDTTPFAGLV RNLGVLFGLG FAINSEMFL SCRGGNNYTL SFRLLCALTS LTILQLYHFL QIPTHEEHLF YVLSFCKSAS IPLTVVAFIP YSVHMLMKQS GKKSQGSSGTETSQV</p> <p>APA</p> <p>Sequence including C-terminal rho1D4 tag.</p>
Characteristics:	<ul style="list-style-type: none">• Made in Germany - from design to production - by highly experienced protein experts.• Human G6PC2 Protein (raised in Insect Cells) purified by multi-step, protein-specific process to ensure crystallization grade.• State-of-the-art algorithm used for plasmid design (Gene synthesis).

Product Details

- Tag Location: C-terminal rho1D4 tag.

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.

The concentration of the protein is calculated using its specific absorption coefficient. We use the ExPASy's protparam tool to determine the absorption coefficient of each protein.

Purification:	The protein is purified in three steps from baculovirus infected SF9 insect cells. Membrane proteins are fractioned by ultracentrifugation and subsequently solubilized with different detergents (detergent screen). Samples are analyzed by Western blot. The best performing detergents - Fos-Choline 14 and DDM - are used for solubilization and G6PC2 is purified via the C-terminal rho1D4 tag. Eluate fractions are analyzed by Western blot. Protein containing fractions of the best purification are subjected to a second purification step through size exclusion chromatograph. Eluate fractions are analyzed by SDS-PAGE and Western blot.
Purity:	>95 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.
Sterility:	0.22 µm filtered
Endotoxin Level:	Protein is endotoxin-free.
Grade:	Crystallography grade

Target Details

Target:	G6PC2
Alternative Name:	G6PC2 (G6PC2 Products)
Background:	May hydrolyze glucose-6-phosphate to glucose in the endoplasmic reticulum. May be responsible for glucose production through glycogenolysis and gluconeogenesis (By similarity). {ECO:0000250}.
Molecular Weight:	41.8 kDa Including tag.
UniProt:	Q9NQR9

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.
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Application Details

Comment: In cases in which it is highly likely that the recombinant protein with the default tag will be insoluble our protein lab may suggest a higher molecular weight tag (e.g. GST-tag) instead to increase solubility. We will discuss all possible options with you in detail to assure that you receive your protein of interest.

Restrictions: For Research Use only

Handling

Format: Liquid

Buffer: 100 mM NaCl, 20 mM Hepes, 10% glycerol. pH value is at the discretion of the manufacturer.

Handling Advice: Avoid repeated freeze-thaw cycles.

Storage: -80 °C

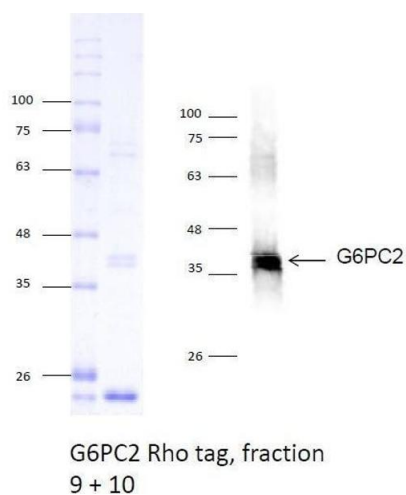
Storage Comment: Store at -80°C.

Expiry Date: Unlimited (if stored properly)

Images

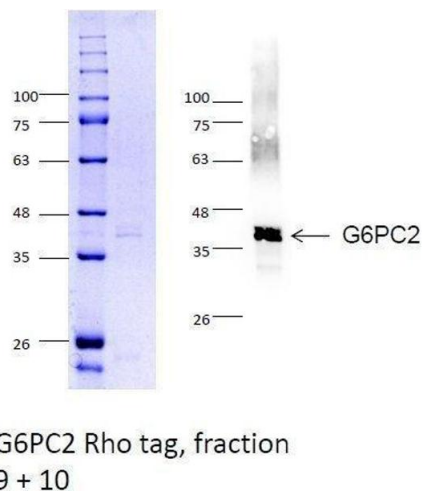


Image 1. „Crystallography Grade“ protein due to multi-step, protein-specific purification process



Western Blotting

Image 2.



Western Blotting

Image 3.

Please check the [product details page](#) for more images. Overall 4 images are available for ABIN3107268.