

Datasheet for ABIN3134363 GPC4 Protein (AA 19-529) (His tag)



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3 Images

Overview

Quantity:	1 mg
Target:	GPC4
Protein Characteristics:	AA 19-529
Origin:	Mouse
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This GPC4 protein is labelled with His tag.
Application:	SDS-PAGE (SDS), Western Blotting (WB), ELISA, Crystallization (Crys)

Product Details

Sequence:	<p>MKFLVNVALV FMVVYISYIY ASLLAAELKS KSCSEVRRLY VSKGFNKND APLYEINGDHL</p> <p>KICPQDYTCC SQEMEEKYSL QSKDDFKTVV SEQCNHLQAI FASRYKKFDE FFKELLENAE</p> <p>KSLNDMFVKT YGHL YMQNSE LFKDLFVELK RYYVAGNVNL EEMLNDFWAR LLERMFRLVN</p> <p>SQYHFTDEYL ECVSKYTEQL KPFGDVPRKL KLQVTRAFVA ARTFAQGLAV ARDVVSKVSV</p> <p>VNPTAQCTHA LLKMIYCSHC RGLVTVKPCY NYCSNIMRGC LANQGDLDFE WNNFIDAMLM</p> <p>VAERLEGPFN IESVMDPIDV KISDAIMNMQ DNSVQVSQKV FQGC GPPKPL PAGRISRSIS</p> <p>ESAFSARFRP YHPEQRPTTA AGTSLDRLVT DVKEKLKQAK KFWSSLPSTV CNDERMAAGN</p> <p>ENEDDCWNGK GKSRYLFAVT GNGLANQGNN PEVQVDTSKP DILILRQIMA LRVMTSKMKN</p> <p>AYNGNDVDFF DISDESSGEG SGSGCEYQQC PSEFEYNATD HSGKSANEKA DSGSSGHHHH HH</p>
Specificity:	N-terminal Melittin-Signalsequenz, C-terminal His-Tag
Characteristics:	<ul style="list-style-type: none"> Made in Germany - from design to production - by highly experienced protein experts.

Product Details

- Mouse Gpc4 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).

This made-to-order protein has already been successfully produced. Please let us know if you are interested in purchasing a smaller amount of this protein. We will check our stock and make you a customized quote in case we can provide this protein in a smaller amount..

When you order this made-to-order protein you will only pay upon receipt of the correctly folded protein. With no financial risk on your end you can rest assured that our experienced protein experts will do everything to make sure that you receive the protein you ordered.

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:	Two step purification of proteins expressed in baculovirus infected SF9 insect cells: <ol style="list-style-type: none">1. In a first purification step, the protein is purified from the cleared cell lysate using three different His-tag capture materials: high yield, EDTA resistant, or DTT resistant. Eluate fractions are analyzed by SDS-PAGE.2. 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:	>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:	GPC4
Alternative Name:	Gpc4 (GPC4 Products)
Background:	Cell surface proteoglycan that bears heparan sulfate. May be involved in the development of kidney tubules and of the central nervous system.
Molecular Weight:	58.8 kDa Including tag.
UniProt:	P51655

Target Details

Pathways: [Glycosaminoglycan 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:	Protein has not been tested for activity yet. 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

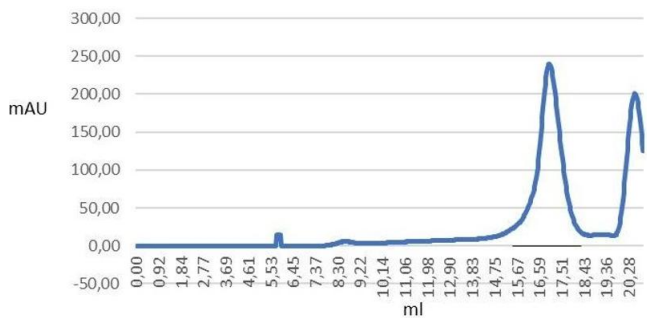
Handling

Format:	Liquid
Buffer:	20 mM HEPES, pH 7.5; 150 mM NaCl, 10% Glycerol, 1mM DTT, 1mM EDTA)
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	Unlimited (if stored properly)

Images

Size-exclusion chromatography-High Pressure Liquid Chromatography

Image 1.



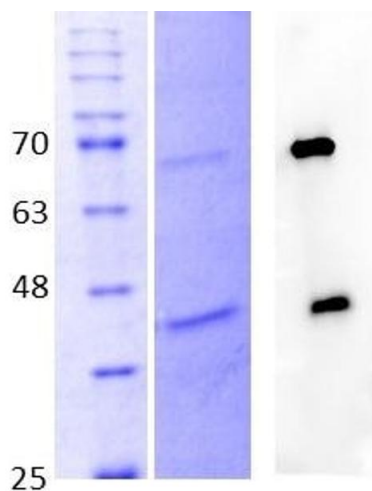


Image 2. „Crystallography Grade“ protein due to multi-step, protein-specific purification process

Western Blotting

Image 3.