antibodies

## Datasheet for ABIN3077974 GARP Protein (AA 983-1251) (His tag)





Overview

0.000	
Quantity:	1 mg
Target:	GARP (CNGB1)
Protein Characteristics:	AA 983-1251
Origin:	Human
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This GARP protein is labelled with His tag.
Application:	Crystallization (Crys), ELISA, SDS-PAGE (SDS), Western Blotting (WB)
Product Details	
Sequence:	YLPNDYVCKK GEIGREMYII QAGQVQVLGG PDGKSVLVTL KAGSVFGEIS LLAVGGGNRR
	TANVVAHGFT NLFILDKKDL NEILVHYPES QKLLRKKARR MLRSNNKPKE EKSVLILPPR
	AGTPKLFNAA LAMTGKMGGK GAKGGKLAHL RARLKELAAL EAAAKQQELV EQAKSSQDVK
	GEEGSAAPDQ HTHPKEAATD PPAPRTPPEP PGSPPSSPPP ASLGRPEGEE EGPAEPEEHS
	VRICMSPGPE PGEQILSVKM PEEREEKAE
	Sequence without tag. Tag location is at the discretion of the manufacturer. If you have a
	special request, please contact us.
Characteristics:	<ul> <li>Made in Germany - from design to production - by highly experienced protein experts.</li> <li>Human CNGB1 Protein (raised in Insect Cells) purified by multi-step, protein-specific process to ensure crystallization grade.</li> <li>State-of-the-art algorithm used for plasmid design (Gene synthesis).</li> </ul>
	This protein is a made to order protein and will be made for the first time for your order. Our

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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.
In the unlikely event that the protein cannot be expressed or purified we do not charge anything
(other companies might charge you for any performed steps in the expression process for
custom-made proteins, e.g. fees might apply for the expression plasmid, the first expression
experiments or purification optimization).
When you order this made-to-order protein you will only pay upon receival 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.
Two step purification of proteins expressed in baculovirus infected SF9 insect cells:
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.
>95 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.
0.22 µm filtered
Protein is endotoxin free.
Crystallography grade

Target:	GARP (CNGB1)
Alternative Name:	CNGB1 (CNGB1 Products)
Background:	Subunit of cyclic nucleotide-gated (CNG) channels, nonselective cation channels, which play
	important roles in both visual and olfactory signal transduction. When associated with CNGA1,

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## Target Details

	it is involved in the regulation of ion flow into the rod photoreceptor outer segment (ROS), in
	response to light-induced alteration of the levels of intracellular cGMP., Isoform GARP2 is a high
	affinity rod photoreceptor phosphodiesterase (PDE6)-binding protein that modulates its
	catalytic properties: it is a regulator of spontaneous activation of rod PDE6, thereby serving to
	lower rod photoreceptor 'dark noise' and allowing these sensory cells to operate at the single
	photon detection limit.
Molecular Weight:	29.8 kDa Including tag.
UniProt:	Q14028
Pathways:	Regulation of G-Protein Coupled Receptor Protein Signaling, Phototransduction

## 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:	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)



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

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