## antibodies

## Datasheet for ABIN3088921 G Protein-Coupled Receptor 116 Protein (GPR116) (AA 22-1006) (His tag)





Overview

Quantity:	1 mg
Target:	G Protein-Coupled Receptor 116 (GPR116)
Protein Characteristics:	AA 22-1006
Origin:	Human
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This G Protein-Coupled Receptor 116 protein is labelled with His tag.
Application:	Crystallization (Crys), ELISA, SDS-PAGE (SDS), Western Blotting (WB)

## Product Details

Sequence:	ALNWNYESTI HPLSLHEHEP AGEEALRQKR AVATKSPTAE EYTVNIEISF ENASFLDPIK
	AYLNSLSFPI HGNNTDQITD ILSINVTTVC RPAGNEIWCS CETGYGWPRE RCLHNLICQE
	RDVFLPGHHC SCLKELPPNG PFCLLQEDVT LNMRVRLNVG FQEDLMNTSS ALYRSYKTDL
	ETAFRKGYGI LPGFKGVTVT GFKSGSVVVT YEVKTTPPSL ELIHKANEQV VQSLNQTYKM
	DYNSFQAVTI NESNFFVTPE IIFEGDTVSL VCEKEVLSSN VSWRYEEQQL EIQNSSRFSI
	YTALFNNMTS VSKLTIHNIT PGDAGEYVCK LILDIFEYEC KKKIDVMPIQ ILANEEMKVM
	CDNNPVSLNC CSQGNVNWSK VEWKQEGKIN IPGTPETDID SSCSRYTLKA DGTQCPSGSS
	GTTVIYTCEF ISAYGARGSA NIKVTFISVA NLTITPDPIS VSEGQNFSIK CISDVSNYDE
	VYWNTSAGIK IYQRFYTTRR YLDGAESVLT VKTSTREWNG TYHCIFRYKN SYSIATKDVI
	VHPLPLKLNI MVDPLEATVS CSGSHHIKCC IEEDGDYKVT FHTGSSSLPA AKEVNKKQVC
	YKHNFNASSV SWCSKTVDVC CHFTNAANNS VWSPSMKLNL VPGENITCQD PVIGVGEPGK
	VIQKLCRFSN VPSSPESPIG GTITYKCVGS QWEEKRNDCI SAPINSLLQM AKALIKSPSQ

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DEMLPTYLKD LSISIDKAEH EISSSPGSLG AIINILDLLS TVPTQVNSEM MTHVLSTVNV ILGKPVLNTW KVLQQQWTNQ SSQLLHSVER FSQALQSGDS PPLSFSQTNV QMSSMVIKSS HPETYQQRFV FPYFDLWGNV VIDKSYLENL QSDSSIVTMA FPTLQAILAQ DIQENNFAES
HPETYQQRFV FPYFDLWGNV VIDKSYLENL QSDSSIVTMA FPTLQAILAQ DIQENNFAES
LVMTTTVSHN TTMPFRISMT FKNNSPSGGE TKCVFWNFRL ANNTGGWDSS GCYVEEGDGD
NVTCICDHLT SFSILMSPDS PDPSS
Sequence without tag. Tag location is at the discretion of the manufacturer. If you have a
special request, please contact us.
<ul> <li>Made in Germany - from design to production - by highly experienced protein experts.</li> <li>Human ADGRF5 Protein (raised in Insect Cells) purified by multi-step, protein-specific process to ensure crystallization grade.</li> </ul>
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.
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:
<ol> <li>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.</li> </ol>
<ol> <li>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.</li> </ol>

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Prity>495 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Biot.Sterility:0.22 µm filteredEndotoxin Level:Protein is endotoxin free.CradeCrystallography gradeTarget DetailsG Protein Coupled Receptor 116 (CPR116)Atternative Name:ADGRF5 (GPR116 Products)Background:Receptor that plays a critical role in lung surfactant homeostasis. May play a role in controlling adpocyte function. (ECO.0000250 UniProtKB GSEB08).Molecular Weight:110.5 KDa including tag.UniProt:GB/EP2Pathways:Carbohydrate HomeostasisApplication DetailsApplication 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 increase solubility. We will discuss all possible options with you in detail to assure that you receive your protein of interest.HandlingLiquidPormat:LiquidBuffer:100 mM NaCl. 20 mM Hepes, 10% glycerol, pH value is at the discretion of the manufacturer.Handling Advice:& void repeated freeze-thaw cycles.Storage: Comment:Stora et a60°C	Product Details	
Endotoxin Level:       Protein is endotoxin free.         Grade:       Crystallography grade         Target Details       Target Octails         Target Details       ADORF5 (CPR116 Products)         Background:       Receptor that plays a critical role in lung surfactant homeostasis. May play a role in controlling adipocyte function. {ECO 0000250/UniProt KE:GSE808}.         Molecular Weight:       110.5 kDa including tag.         UniProt:       Q8/2F2         Pathways:       Carbohydrate Homeostasis         Application Details       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 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 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 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 lab may suggest a higher molecular weight tag (e.g	Purity:	>95 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.
Grade:       Crystallography grade         Target Details       Target:         Target:       G Protein-Coupled Receptor 116 (GPR116)         Atternative Name:       ADGRF5 (GPR116 Products)         Background       Receptor that plays a critical role in lung surfactant homeostasis. May play a role in controlling adipocyte function. (ECO:0000250)UniProtKBGSE8Q8).         Molecular Weight       110 5 kDa Including tag.         UniProt:       Q8/ZF2         Pathways:       Carbohydrate Homeostasis         Application Details       In addition to the applications listed above we expect the protein to work for functional studies garantee though.         Comment:       In addition to the applications listed above we expect the protein to work for functional studies garantee 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 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       100 mM NaCL, 20 mM Hepes, 10% glycerol. PH value is at the discretion of the manufacturer.         Handling Advice:       Avoid repeated freeze-thaw cycles. </td <td>Sterility:</td> <td>0.22 µm filtered</td>	Sterility:	0.22 µm filtered
Target DetailsTarget:G Protein-Coupled Receptor 116 (GPR116)Alternative Name:ADGRE5 (GPR116 Products)Background:Receptor that plays a critical role in lung surfactant homeostasis. May play a role in controlling adipocyte function. {ECO.0000250[UniProtKB:G5E8Q8].Molecular Weight:110.5 kDa including tag.UniProt:OBIZE2Pathways:Carbohydrate HomeostasisApplication DetailsIn 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 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 onlyHandlingLiquidBuffer:100 mM NaCL, 20 mM Hepes, 10% glycerol. pH value is at the discretion of the manufacturer.Handling Advice:Avoid repeated freeze-thaw cycles.	Endotoxin Level:	Protein is endotoxin free.
Target:       G Protein-Coupled Receptor 116 (GPR116)         Alternative Name:       ADGRF5 (GPR116 Products)         Background:       Receptor that plays a critical role in lung surfactant homeostasis. May play a role in controlling adipocyte function. (EC0:0000250 UniProtKB:G5EBQ8).         Molecular Weight:       110.5 KDa Including tag.         UniProt:       QBIZF2         Pathways:       Carbohydrate Homeostasis         Application Details       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       100 mM NaCL, 20 mM Hepes, 10% glycerol, pH value is at the discretion of the manufacturer.         Handling Advice:       Avoid repeated freeze-thaw cycles.	Grade:	Crystallography grade
Alternative Name:       ADGRF5 (GPR116 Products)         Background:       Receptor that plays a critical role in lung surfactant homeostasis. May play a role in controlling adipocyte function. (ECO:0000250/UniProtKB:G5E808).         Molecular Weight:       110.5 kDa Including tag.         UniProt:       Q8IZF2         Pathways:       Carbohydrate Homeostasis         Application Details       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       100 mM NaCl, 20 mM Hepes, 10% glycerol. pH value is at the discretion of the manufacturer.         Handling Advice:       Avoid repeated freeze-thaw cycles.	Target Details	
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Handling Advice:     Avoid repeated freeze-thaw cycles.       Storage:     -80 °C	Format:	Liquid
Storage: -80 °C	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 Comment: Store at -80°C.	Storage:	-80 °C
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Handling
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Expiry Date:

Unlimited (if stored properly)

## Images



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

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