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Datasheet for ABIN3131010 GPR161 Protein (AA 1-545) (rho-1D4 tag)



Overview

Image

Quantity:	1 mg
Target:	GPR161
Protein Characteristics:	AA 1-545
Origin:	Mouse
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This GPR161 protein is labelled with rho-1D4 tag.
Application:	ELISA, SDS-PAGE (SDS), Western Blotting (WB), Crystallization (Crys)

Product Details

Sequence:	MDFVQHALLT ASRGALTMSL NSSLSYRKEL SNLTATEGGE GGAVSEFIAI IIITVLVCLG
	NLVIVVTLYK KSYLLTLSNK FVFSLTLSNF LLSVLVLPFV VTSSIRREWI FGVVWCNFSA
	LLYLLISSAS MLTLGVIAID RYYAVLYPMV YPMKITGNRA VMALVYIWLH SLIGCLPPLF
	GWSSVEFDEF KWMCVAAWHQ EPGYTIFWQI WCALFPFLIM LVCYGFIFRV ARVKARKVHC
	GTVVTVEEDS QRSGRKNSST STSSSGSRRN ALQGVVYSAN QCKALITILV VIGAFMVTWG
	PYMVVITSEA LWGKNCVSPT LETWATWLSF TSAICHPLIY GLWNKTVRKE LLGMCFGDRY
	YRESFVQRQR TSRLFSISNR ITDLGLSPHL TALMAGGQSL GHSSSTGDTG FSYSQDSGTD
	VMLLEDGTSE DNPPQHCTCP PKRRSSVTFE DEVEQIKEAA KNSLLHVKAE VHKSLDSYAA
	SLAKAIEAEA KINLFGEEAL PGVLFTARTV PGAGFGGRRG SRTLVNQRLQ LQSIKEGNVL AAEQR
	Sequence without tag. Tag location is at the discretion of the manufacturer. If you have a
	special request, please contact us.

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Product Details	
Characteristics:	 Made in Germany - from design to production - by highly experienced protein experts. Mouse Gpr161 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 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.
Purification:	Three step purification of membrane proteins expressed in 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 detergent is used for solubilization and the proteins are purified via their rho1D4 tag via two rho1D4 antibody columns: one DTT resistant, the other one not. Eluate
	fractions are analyzed by Western blot. 3. Protein containing fractions of the best purification are subjected to 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

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Target Details

Target:	GPR161
Alternative Name:	Gpr161 (GPR161 Products)
Background:	Key negative regulator of Shh signaling, which promotes the processing of GLI3 into GLI3R during neural tube development. Recruited by TULP3 and the IFT-A complex to primary cilia and acts as a regulator of the PKA-dependent basal repression machinery in Shh signaling by increasing cAMP levels, leading to promote the PKA-dependent processing of GLI3 into GLI3R and repress the Shh signaling. In presence of SHH, it is removed from primary cilia and is internalized into recycling endosomes, preventing its activity and allowing activation of the Shh signaling. Its ligand is unknown. {ECO:0000269 PubMed:18250320, ECO:0000269 PubMed:23332756}.
Molecular Weight:	61.5 kDa Including tag.
UniProt:	B2RPY5
Pathways:	cAMP 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 gurantee 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:	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)

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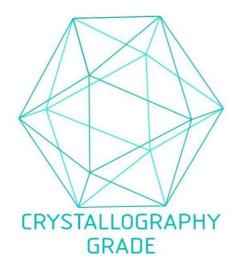


Image 1. "Crystallography Grade" protein due to multi-step, protein-specific purification process

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