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Datasheet for ABIN3131017 GNAI1 Protein (AA 2-354) (His tag)

Image



Overview

Quantity:	1 mg
Target:	GNAI1
Protein Characteristics:	AA 2-354
Origin:	Mouse
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This GNAI1 protein is labelled with His tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS), Crystallization (Crys)

Product Details

Sequence:	GCTLSAEDKA AVERSKMIDR NLREDGEKAA REVKLLLLGA GESGKSTIVK QMKIIHEAGYSEEECKQYKA VVYSNTIQSI IAIIRAMGRL KIDFGDSARA DDARQLFVLA GAAEEGFMTAELAGVIKRLW KDSGVQACFN RSREYQLNDS AAYYLNDLDR IAQPNYIPTQ QDVLRTRVKTTGIVETHFTF KDLHFKMFDV GGQRSERKKW IHCFEGVTAI IFCVALSDYD LVLAEDEEMNRMHESMKLFD SICNNKWFTD TSIILFLNKK DLFEEKIKKS PLTICYPEYA GSNTYEEAAAYIQCQFEDLN KRKDTKEIYT HFTCATDTKN VQFVFDAVTD VIIKNNLKDC GLFSequence without tag. Tag location is at the discretion of the manufacturer. If you have a
Characteristics:	 Made in Germany - from design to production - by highly experienced protein experts. Mouse Gnai1 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).

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Product Details	
	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:	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.
	 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:	GNAI1
Alternative Name:	Gnai1 (GNAI1 Products)
Background:	Guanine nucleotide-binding proteins (G proteins) function as transducers downstream of G

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	protein-coupled receptors (GPCRs) in numerous signaling cascades. The alpha chain contains
	the guanine nucleotide binding site and alternates between an active, GTP-bound state and an
	inactive, GDP-bound state. Signaling by an activated GPCR promotes GDP release and GTP
	binding. The alpha subunit has a low GTPase activity that converts bound GTP to GDP, thereby
	terminating the signal. Both GDP release and GTP hydrolysis are modulated by numerous
	regulatory proteins (By similarity). Signaling is mediated via effector proteins, such as adenylate
	cyclase. Inhibits adenylate cyclase activity, leading to decreased intracellular cAMP levels (By
	similarity). The inactive GDP-bound form prevents the association of RGS14 with centrosomes
	and is required for the translocation of RGS14 from the cytoplasm to the plasma membrane.
	Required for normal cytokinesis during mitosis (By similarity).
	{ECO:0000250 UniProtKB:P10824, ECO:0000250 UniProtKB:P63096}.
Molecular Weight:	41.2 kDa Including tag.
UniProt:	B2RSH2
Pathways:	G-protein mediated Events
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.

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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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