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Datasheet for ABIN3115227 GNPTAB Protein (AA 1-928) (rho-1D4 tag)



Overview

Image

Quantity:	1 mg
Target:	GNPTAB
Protein Characteristics:	AA 1-928
Origin:	Human
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This GNPTAB protein is labelled with rho-1D4 tag.
Application:	Crystallization (Crys), ELISA, SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Sequence:	MLFKLLQRQT YTCLSHRYGL YVCFLGVVVT IVSAFQFGEV VLEWSRDQYH VLFDSYRDNI
	AGKSFQNRLC LPMPIDVVYT WVNGTDLELL KELQQVREQM EEEQKAMREI LGKNTTEPTK
	KSEKQLECLL THCIKVPMLV LDPALPANIT LKDLPSLYPS FHSASDIFNV AKPKNPSTNV
	SVVVFDSTKD VEDAHSGLLK GNSRQTVWRG YLTTDKEVPG LVLMQDLAFL SGFPPTFKET
	NQLKTKLPEN LSSKVKLLQL YSEASVALLK LNNPKDFQEL NKQTKKNMTI DGKELTISPA
	YLLWDLSAIS QSKQDEDISA SRFEDNEELR YSLRSIERHA PWVRNIFIVT NGQIPSWLNL
	DNPRVTIVTH QDVFRNLSHL PTFSSPAIES HIHRIEGLSQ KFIYLNDDVM FGKDVWPDDF
	YSHSKGQKVY LTWPVPNCAE GCPGSWIKDG YCDKACNNSA CDWDGGDCSG NSGGSRYIAG
	GGGTGSIGVG QPWQFGGGIN SVSYCNQGCA NSWLADKFCD QACNVLSCGF DAGDCGQDHF
	HELYKVILLP NQTHYIIPKG ECLPYFSFAE VAKRGVEGAY SDNPIIRHAS IANKWKTIHL
	IMHSGMNATT IHFNLTFQNT NDEEFKMQIT VEVDTREGPK LNSTAQKGYE NLVSPITLLP
	EAEILFEDIP KEKRFPKFKR HDVNSTRRAQ EEVKIPLVNI SLLPKDAQLS LNTLDLQLEH

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	GDITLKGYNL SKSALLRSFL MNSQHAKIKN QAIITDETND SLVAPQEKQV HKSILPNSLG
	VSERLQRLTF PAVSVKVNGH DQGQNPPLDL ETTARFRVET HTQKTIGGNV TKEKPPSLIV
	PLESQMTKEK KITGKEKENS RMEENAENHI GVTEVLLGRK LQHYTDSYLG FLPWEKKKYF
	QDLLDEEESL KTQLAYFTDS KNTGRQLK
	Sequence without tag. Tag location is at the discretion of the manufacturer. If you have a
	special request, please contact us.
Characteristics:	 Made in Germany - from design to production - by highly experienced protein experts. Human GNPTAB 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:
	1. 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

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Product Details	
	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:	GNPTAB
Alternative Name:	GNPTAB (GNPTAB Products)
Background:	Catalyzes the formation of mannose 6-phosphate (M6P) markers on high mannose type oligosaccharides in the Golgi apparatus. M6P residues are required to bind to the M6P receptors (MPR), which mediate the vesicular transport of lysosomal enzymes to the endosomal/prelysosomal compartment. {ECO:0000269 PubMed:19955174, ECO:0000269 PubMed:23733939}.
Molecular Weight:	105.9 kDa Including tag.
UniProt:	Q3T906
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:	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

100 mM NaCL, 20 mM Hepes, 10% glycerol. pH value is at the discretion of the manufacturer.

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Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	Unlimited (if stored properly)

Images



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