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Datasheet for ABIN3131944 GFI1B Protein (AA 1-330) (His tag)

Image



Overview

Quantity:	1 mg
Target:	GFI1B
Protein Characteristics:	AA 1-330
Origin:	Mouse
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This GFI1B protein is labelled with His tag.
Application:	ELISA, Western Blotting (WB), Crystallization (Crys), SDS-PAGE (SDS)

Product Details

Sequence:	MPRSFLVKSK KAHTYHQPRA QGDELVWPPA VIPVAKEHSQ SASPLLSTPL PSQTLDWNTI
	KQEREMLLNQ SLPKMASAPE GPLVTPQPQD GESPLSESPP FYKPSFSWDT LASSYSHSYT
	QTPSTMQSAF LERSVRLYGS PLVPSTESPL DFRLRYSPGM DTYHCVKCNK VFSTPHGLEV
	HVRRSHSGTR PFACDVCGKT FGHAVSLEQH THVHSQERSF ECRMCGKAFK RSSTLSTHLL
	IHSDTRPYPC QFCGKRFHQK SDMKKHTYIH TGEKPHKCQV CGKAFSQSSN LITHSRKHTG
	FKPFSCELCT KGFQRKVDLR RHRESQHNLK
	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.
	• Mouse Gfi1b 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. 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.
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:	GFI1B
Alternative Name:	Gfi1b (GFI1B Products)
Background:	Essential proto-oncogenic transcriptional regulator necessary for development and
	inder proce encogerine transcomptional regulator neocoodity for development and

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	differentiation of erythroid and megakaryocytic lineages. Component of a RCOR-GFI-KDM1A-
	HDAC complex that suppresses, via histone deacetylase (HDAC) recruitment, a number of
	genes implicated in multilineage blood cell development and controls hematopoietic
	differentiation. Transcriptional repressor or activator depending on both promoter and cell type
	context, represses promoter activity of SOCS1 and SOCS3 and thus, may regulate cytokine
	signaling pathways. Cooperates with GATA1 to repress target gene transcription, such as the
	apoptosis regulator BCL2L1, GFI1B silencing in leukemic cell lines markedly increase apoptosis
	rate. Inhibits down-regulation of MYC and MYB as well as the cyclin-dependent kinase inhibitor
	CDKN1A/P21WAF1 in IL6-treated myelomonocytic cells. Represses expression of GATA3 in T-
	cell lymphomas and inhibits GATA1-mediated transcription, as GATA1 also mediates erythroid
	GFI1B transcription, both GATA1 and GFI1B participate in a feedback regulatory pathway
	controlling the expression of GFI1B gene in erythroid cells. Suppresses GATA1-mediated
	stimulation of GFI1B promoter through protein interaction. Binds to gamma-satellite DNA and
	to its own promoter, auto-repressing its own expression. Alters histone methylation by
	recruiting histone methyltransferase to target genes promoters. Plays a role in heterochromatin
	formation. {ECO:0000269 PubMed:11696536, ECO:0000269 PubMed:12351384,
	EC0:0000269 PubMed:12594258, EC0:0000269 PubMed:15718298,
	ECO:0000269 PubMed:17707228, ECO:0000269 PubMed:9566867}.
Molecular Weight:	38.4 kDa Including tag.
UniProt:	070237
Pathways:	Cellular Response to Molecule of Bacterial Origin
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

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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)

Images



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