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Datasheet for ABIN3136118 FBXL21 Protein (AA 1-434) (His tag)

Image



Overview

Quantity:	1 mg
Target:	FBXL21
Protein Characteristics:	AA 1-434
Origin:	Mouse
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This FBXL21 protein is labelled with His tag.
Application:	ELISA, Western Blotting (WB), Crystallization (Crys), SDS-PAGE (SDS)

Product Details

Characteristics:	 Made in Germany - from design to production - by highly experienced protein experts. Mouse Fbxl21 Protein (raised in Insect Cells) purified by multi-step, protein-specific process
Characteristics	· Made in Cormony, from design to production, by highly experienced protein experte
	special request, please contact us.
	Sequence without tag. Tag location is at the discretion of the manufacturer. If you have a
	HLGRVWFPDV MPIW
	AKHCKNLTSL GLSECEVSCS AFVEFVRLCG RRLTQLSIME EVLVPDDRYT PDEVHTEVSK
	LYEEFEAFF KEETPVTHLY FGRSVSRAIL GRIGLNCPRL IELVVCANGL LPLDSELIRI
	ILSDEILLAL SSETHVNLEH LRIDVVSENP GQIKFHSIKK RSWDALIKHS PRVNVVMYFF
	SSIKIEDTPV DDPSLKILVA NNSDTLRLLK MSSCPHVSSD GILCVADHCQ GLRELALNYY
	FKVDSSTESA EAACDILSQL VNCSIQTLGL ISTAKPSFMN VPKSHFVSAL TVVFVNSKSL
	DRARASSVCR RWNEVFHIPD LWRKFEFELN QSATSYFKST HPDLIQQIIK KHAAHLQYVS
Sequence:	MKRNNFSAVN KVVQSSPVVK QPKRGLCSSL RQTHALSVLL DWGTLPHHVI LQIFQYLPLI

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Product D	etails
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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:	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:	FBXL21
Alternative Name:	Fbxl21 (FBXL21 Products)

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Target Details

Background:	Substrate-recognition component of the SCF(FBXL21) E3 ubiquitin ligase complex involved in
	circadian rhythm function. Plays a key role in the maintenance of both the speed and the
	robustness of the circadian clock oscillation. The SCF(FBXL21) complex mainly acts in the
	cytosol and mediates ubiquitination of CRY proteins (CRY1 and CRY2), leading to CRY proteins
	stabilization. The SCF(FBXL21) complex counteracts the activity of the SCF(FBXL3) complex
	and protects CRY proteins from degradation. Involved in the hypothalamic suprachiasmatic
	nucleus (SCN) clock regulating temporal organization of the daily activities.
	{ECO:0000269 PubMed:18953409, ECO:0000269 PubMed:23452855,
	EC0:0000269 PubMed:23452856}.
Molecular Weight:	50.1 kDa Including tag.
UniProt:	Q8BFZ4
Pathways:	Photoperiodism
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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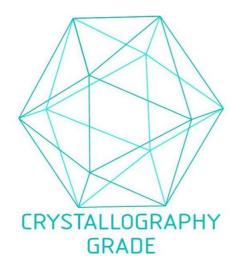


Image 1. "Crystallography Grade" protein due to multi-step, protein-specific purification process

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