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# Datasheet for ABIN3136926 FOXP3 Protein (AA 1-417) (His tag)

Image



#### Overview

Quantity:	1 mg
Target:	FOXP3
Protein Characteristics:	AA 1-417
Origin:	Mouse
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This FOXP3 protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS), ELISA, Crystallization (Crys)

## Product Details

Sequence:	MPNPRPAKPM APSLALGPSP GVLPSWKTAP KGSELLGTRG SGGPFQGRDL RSGAHTSSSL
	NPLPPSQLQL PTVPLVMVAP SGARLGPSPH LQALLQDRPH FMHQLSTVDA HAQTPVLQVR
	PLDNPAMISL PPPSAATGVF SLKARPGLPP GINVASLEWV SREPALLCTF PRSGTPRKDS
	NLLAAPQGSY PLLANGVCKW PGCEKVFEEP EEFLKHCQAD HLLDEKGKAQ CLLQREVVQS
	LEQQLELEKE KLGAMQAHLA GKMALAKAPS VASMDKSSCC IVATSTQGSV LPAWSAPREA
	PDGGLFAVRR HLWGSHGNSS FPEFFHNMDY FKYHNMRPPF TYATLIRWAI LEAPERQRTL
	NEIYHWFTRM FAYFRNHPAT WKNAIRHNLS LHKCFVRVES EKGAVWTVDE FEFRKKR
	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 Foxp3 Protein (raised in Insect Cells) purified by multi-step, protein-specific process
	to ensure crystallization grade.

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	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
Tarrat Dataila	
Target Details	
Target:	FOXP3
Alternative Name:	Foxp3 (FOXP3 Products)

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Target Details	
Background:	Transcriptional regulator which is crucial for the development and inhibitory function of
	regulatory T-cells (Treg). Plays an essential role in maintaining homeostasis of the immune
	system by allowing the acquisition of full suppressive function and stability of the Treg lineage,
	and by directly modulating the expansion and function of conventional T-cells. Can act either as
	a transcriptional repressor or a transcriptional activator depending on its interactions with other
	transcription factors, histone acetylases and deacetylases. The suppressive activity of Treg
	involves the coordinate activation of many genes, including CTLA4 and TNFRSF18 by FOXP3
	along with repression of genes encoding cytokines such as interleukin-2 (IL2) and interferon-
	gamma (IFNG). Inhibits cytokine production and T-cell effector function by repressing the
	activity of two key transcription factors, RELA and NFATC2 (PubMed:15790681). Mediates
	transcriptional repression of IL2 via its association with histone acetylase KAT5 and histone
	deacetylase HDAC7 (By similarity). Can activate the expression of TNFRSF18, IL2RA and CTLA
	and repress the expression of IL2 and IFNG via its association with transcription factor RUNX1
	(PubMed:17377532). Inhibits the differentiation of IL17 producing helper T-cells (Th17) by
	antagonizing RORC function, leading to down-regulation of IL17 expression, favoring Treg
	development (PubMed:18368049). Inhibits the transcriptional activator activity of RORA (By
	similarity). Can repress the expression of IL2 and IFNG via its association with transcription
	factor IKZF4 (PubMed:19696312). {ECO:0000250 UniProtKB:Q9BZS1,
	ECO:0000269 PubMed:15790681, ECO:0000269 PubMed:17377532,
	ECO:0000269 PubMed:18368049, ECO:0000269 PubMed:19696312}.
Molecular Weight:	47.0 kDa Including tag.
UniProt:	Q99JB6
Pathways:	Chromatin Binding, Regulation of Leukocyte Mediated Immunity, Positive Regulation of
	Immune Effector Process, Production of Molecular Mediator of Immune Response, Activated T
	Cell Proliferation
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.

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## Application Details

#### 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)

### Images



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