

## Datasheet for ABIN3132471 TGFB1 Protein (AA 279-390) (His tag)



Overview Quantity: 1 mg TGFB1 Target: Protein Characteristics: AA 279-390 Origin: Mouse Source: Insect Cells Protein Type: Recombinant Purification tag / Conjugate: This TGFB1 protein is labelled with His tag. Application: Western Blotting (WB), SDS-PAGE (SDS), ELISA, Crystallization (Crys) Product Details Sequence: ALDTNYCFSS TEKNCCVRQL YIDFRKDLGW KWIHEPKGYH ANFCLGPCPY IWSLDTQYSK VLALYNQHNP GASASPCCVP QALEPLPIVY YVGRKPKVEQ LSNMIVRSCK CS 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 Tgfb1 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

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Product Details	
	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:
	<ol> <li>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.</li> <li>Protein containing fractions of the best purification are subjected to second purification step</li> </ol>
	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:	TGFB1
Alternative Name:	Tgfb1 (TGFB1 Products)
Background:	Multifunctional protein that controls proliferation, differentiation and other functions in many
	cell types. Many cells synthesize TGFB1 and have specific receptors for it. It positively and
	negatively regulates many other growth factors. It plays an important role in bone remodeling
	as it is a potent stimulator of osteoblastic bone formation, causing chemotaxis, proliferation
	and differentiation in committed osteoblasts. Can promote either T-helper 17 cells (Th17) or

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	regulatory T-cells (Treg) lineage differentiation in a concentration-dependent manner. At high
	concentrations, leads to FOXP3-mediated suppression of RORC and down-regulation of IL-17
	expression, favoring Treg cell development. At low concentrations in concert with IL-6 and IL-
	21, leads to expression of the IL-17 and IL-23 receptors, favoring differentiation to Th17 cells
	(PubMed:18368049). Mediates SMAD2/3 activation by inducing its phosphorylation and
	subsequent translocation to the nucleus. Can induce epithelial-to-mesenchymal transition
	(EMT) and cell migration in various cell types (By similarity). {ECO:0000250 UniProtKB:P01137,
	ECO:0000269 PubMed:18368049, ECO:0000269 PubMed:22781750}.
Molecular Weight:	13.8 kDa Including tag.
JniProt:	P04202
Pathways:	EGFR Signaling Pathway, Dopaminergic Neurogenesis, Cellular Response to Molecule of
	Bacterial Origin, Glycosaminoglycan Metabolic Process, Regulation of Leukocyte Mediated
	Immunity, Regulation of Muscle Cell Differentiation, Positive Regulation of Immune Effector
	Process, Cell-Cell Junction Organization, Production of Molecular Mediator of Immune
	Response, Ribonucleoside Biosynthetic Process, Skeletal Muscle Fiber Development,
	Regulation of Carbohydrate Metabolic Process, Protein targeting to Nucleus, Autophagy,
	Cancer Immune Checkpoints
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 gurante
	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

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.

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## Handling

Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	Unlimited (if stored properly)