antibodies

## Datasheet for ABIN3133688 AIMP1 Protein (AA 145-310) (His tag)

1 Image



Overview

Quantity:	1 mg
Target:	AIMP1
Protein Characteristics:	AA 145-310
Origin:	Mouse
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This AIMP1 protein is labelled with His tag.
Application:	SDS-PAGE (SDS), Western Blotting (WB), ELISA, Crystallization (Crys)
Product Details	
Sequence:	SKPIDASRLD LRIGCIVTAK KHPDADSLYV EEVDVGEAAP RTVVSGLVNH VPLEQMQNRM
	VVLLCNLKPA KMRGVLSQAM VMCASSPEKV EILAPPNGSV PGDRITFDAF PGEPDKELNP
	KKKIWEQIQP DLHTNAECVA TYKGAPFEVK GKGVCRAQTM ANSGIK
	Sequence without tag. Tag location is at the discretion of the manufacturer. If you have a
	special request, please contact us.
Characteristics:	<ul> <li>Made in Germany - from design to production - by highly experienced protein experts.</li> <li>Mouse Aimp1 Protein (raised in Insect Cells) purified by multi-step, protein-specific process</li> </ul>
	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

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	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:
	<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> </ol>
	<ol> <li>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.</li> </ol>
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:	AIMP1
Alternative Name:	Aimp1 (AIMP1 Products)
Background:	Non-catalytic component of the multisynthase complex. Stimulates the catalytic activity of
	cytoplasmic arginyl-tRNA synthase. Binds tRNA. Possesses inflammatory cytokine activity.
	Negatively regulates TGF-beta signaling through stabilization of SMURF2 by binding to
	SMURF2 and inhibiting its SMAD7-mediated degradation. Involved in glucose homeostasis

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	through induction of glucagon secretion at low glucose levels. Promotes dermal fibroblast
	proliferation and wound repair. Regulates KDELR1-mediated retention of HSP90B1/gp96 in the
	endoplasmic reticulum. Plays a role in angiogenesis by inducing endothelial cell migration at
	low concentrations and endothelian cell apoptosis at high concentrations. Induces maturation
	of dendritic cells and monocyte cell adhesion. Modulates endothelial cell responses by
	degrading HIF-1A through interaction with PSMA7 (By similarity). {ECO:0000250,
	ECO:0000269 PubMed:1400342, ECO:0000269 PubMed:15681823,
	ECO:0000269 PubMed:17001013, ECO:0000269 PubMed:17525271,
	ECO:0000269 PubMed:18292511, ECO:0000269 PubMed:18448069,
	ECO:0000269 PubMed:7545917}.
Molecular Weight:	18.9 kDa Including tag.
UniProt:	P31230
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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