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## Datasheet for ABIN3136700 MAVS Protein (AA 1-478) (His tag)

Image



#### Overview

Quantity:	1 mg
Target:	MAVS
Protein Characteristics:	AA 1-478
Origin:	Mouse
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This MAVS protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS), ELISA, Crystallization (Crys)

#### Product Details

Sequence:	MTFAEDKTYK YIRDNHSKFC CVDVLEILPY LSCLTASDQD RLRASYRQIG NRDTLWGLFN
	NLQRRPGWVE VFIRALQICE LPGLADQVTR VYQSYLPPGT SLRSLEPLQL PDFPAAVSGP
	SAFAPGHNIP DHGLRETPSC PKPVQDTQPP ESPVENSEQL LQTNSGAVAR MSGGSLIPSP
	NQQALSPQPS REHQEQEPEL GGAHAANVAS VPIATYGPVS PTVSFQPLPR TALRTNLLSG
	VTVSALSADT SLSSSSTGSA FAKGAGDQAK AATCFSTTLT NSVTTSSVPS PRLVPVKTMS
	SKLPLSSKST AAMTSTVLTN TAPSKLPSNS VYAGTVPSRV PASVAKAPAN TIPPERNSKQ
	AKETPEGPAT KVTTGGNQTG PNSSIRSLHS GPEMSKPGVL VSQLDEPFSA CSVDLAISPS
	SSLVSEPNHG PEENEYSSFR IQVDESPSAD LLGSPEPLAT QQPQEEEEHC ASSMPWAK
	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 Mavs Protein (raised in Insect Cells) purified by multi-step, protein-specific process to</li> </ul>

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<ul><li>ensure crystallization grade.</li><li>State-of-the-art algorithm used for plasmid design (Gene synthesis).</li></ul>
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.
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>
>95 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.
0.22 µm filtered
Protein is endotoxin free.
Crystallography grade

**Product Details** 

 Target:
 MAVS

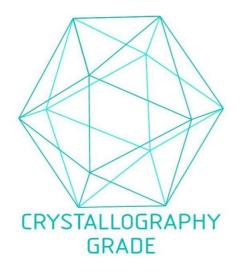
 Alternative Name:
 Mavs (MAVS Products)

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### Target Details

Background:	Required for innate immune defense against viruses. Acts downstream of DDX58/RIG-I and IFIH1/MDA5, which detect intracellular dsRNA produced during viral replication, to coordinate pathways leading to the activation of NF-kappa-B, IRF3 and IRF7, and to the subsequent induction of antiviral cytokines such as IFN-beta and RANTES (CCL5). Peroxisomal and mitochondrial MAVS act sequentially to create an antiviral cellular state. Upon viral infection, peroxisomal MAVS induces the rapid interferon-independent expression of defense factors that provide short-term protection, whereas mitochondrial MAVS activates an interferon-dependent signaling pathway with delayed kinetics, which amplifies and stabilizes the antiviral response. May activate the same pathways following detection of extracellular dsRNA by TLR3. May
	protect cells from apoptosis (By similarity). {ECO:0000250}.
Molecular Weight:	51.6 kDa Including tag.
UniProt:	Q8VCF0
Pathways:	Activation of Innate immune Response, Inositol Metabolic Process, Hepatitis C
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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