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IFITM3 Protein (AA 1-137) (rho-1D4 tag)



Image



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1 mg	
IFITM3	
AA 1-137	
Mouse	
Insect Cells	
Recombinant	
This IFITM3 protein is labelled with rho-1D4 tag.	
Western Blotting (WB), ELISA, SDS-PAGE (SDS), Crystallization (Crys)	
MNHTSQAFIT AASGGQPPNY ERIKEEYEVA EMGAPHGSAS VRTTVINMPR EVSVPDHVVW	
SLFNTLFMNF CCLGFIAYAY SVKSRDRKMV GDVTGAQAYA STAKCLNIST LVLSILMVVI	
TIVSVIIIVL NAQNLHT	
Sequence without tag. Tag location is at the discretion of the manufacturer. If you have a	
special request, please contact us.	
 Made in Germany - from design to production - by highly experienced protein experts. Mouse Ifitm3 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	

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:

Three step purification of membrane proteins expressed in baculovirus infected SF9 insect cells:

- 1. Membrane proteins are fractioned by ultracentrifugation and subsequently solubilized with different detergents (detergent screen). Samples are analyzed by Western blot.
- 2. The best performing detergent is used for solubilization and the proteins are purified via their rho1D4 tag via two rho1D4 antibody columns: one DTT resistant, the other one not. Eluate fractions are analyzed by Western blot.
- Protein containing fractions of the best purification are subjected to second purification step through size exclusion chromatograph. 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:	IFITM3
Alternative Name:	Ifitm3 (IFITM3 Products)
Background:	IFN-induced antiviral protein which inhibits the entry of viruses to the host cell cytoplasm,
	permitting endocytosis, but preventing subsequent viral fusion and release of viral contents into

the cytosol. Active against multiple viruses, including influenza A virus, SARS coronavirus (SARS-CoV), Marburg virus (MARV) and Ebola virus (EBOV), Dengue virus (DNV), West Nile virus (WNV) and human immunodeficiency virus type 1 (HIV-1). Can inhibit: influenza virus hemagglutinin protein-mediated viral entry, MARV and EBOV GP1,2-mediated viral entry and SARS-CoV S protein-mediated viral entry. Plays a critical role in the structural stability and function of vacuolar ATPase (v-ATPase). Establishes physical contact with the v-ATPase of endosomes which is critical for proper clathrin localization and is also required for the function of the v-ATPase to lower the pH in phagocytic endosomes thus establishing an antiviral state. Involved in initiating germ cell competence and specification, and in the demarcation of PGCs from their somatic neighbors. {ECO:0000269|PubMed:12124616, ECO:0000269|PubMed:18505827, ECO:0000269|PubMed:21253575,

ECO:0000269|PubMed:22467717}.

Molecular Weight: 16.1 kDa Including tag.

UniProt: Q9CQW9

Application Details

In addition to the applications listed above we expect the protein to work for functional studies Application Notes:

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:

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.

Liquid

-80 °C Storage:

Store at -80°C. Storage Comment:

Expiry Date: Unlimited (if stored properly)



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