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IFITM2 Protein (AA 1-132) (Strep Tag)



Image



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Overview

Quantity:	1 mg
Target:	IFITM2
Protein Characteristics:	AA 1-132
Origin:	Human
Source:	Tobacco (Nicotiana tabacum)
Protein Type:	Recombinant
Purification tag / Conjugate:	This IFITM2 protein is labelled with Strep Tag.
Application:	Western Blotting (WB), ELISA, SDS-PAGE (SDS)
Product Details	

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Product Details	
Sequence:	MNHIVQTFSP VNSGQPPNYE MLKEEQEVAM LGVPHNPAPP MSTVIHIRSE TSVPDHVVWS
	LFNTLFMNTC CLGFIAFAYS VKSRDRKMVG DVTGAQAYAS TAKCLNIWAL ILGIFMTILL
	IIIPVLVVQA QR
	Sequence without tag. The proposed Strep-Tag is based on experience s with the expression
	system, a different complexity of the protein could make another tag necessary. In case you
	have a special request, please contact us.
Characteristics:	Key Benefits:
	Made in Germany - from design to production - by highly experienced protein experts.
	Protein expressed with ALiCE® and purified by multi-step, protein-specific process to ensure

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reported (not tested by us and not guaranteed).

· These proteins are normally active (enzymatically functional) as our customers have

correct folding and modification.

• 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.

Expression System:

- ALiCE®, our Almost Living Cell-Free Expression System is based on a lysate obtained from Nicotiana tabacum c.v.. This contains all the protein expression machinery needed to produce even the most difficult-to-express proteins, including those that require posttranslational modifications.
- During lysate production, the cell wall and other cellular components that are not required for
 protein production are removed, leaving only the protein production machinery and the
 mitochondria to drive the reaction. During our lysate completion steps, the additional
 components needed for protein production (amino acids, cofactors, etc.) are added to
 produce something that functions like a cell, but without the constraints of a living system all that's needed is the DNA that codes for the desired protein!

Concentration:

- 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.
- We use the Expasy's ProtParam tool to determine the absorption coefficient of each protein.

Purification:	Two step purification of proteins expressed in Almost Living Cell-Free Expression System
	(ALiCE®):
	1. In a first purification step, the protein is purified from the cleared cell lysate using StrepTag capture material. Eluate fractions are analyzed by SDS-PAGE.
	 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:	>80 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.
Endotoxin Level:	Low Endotoxin less than 1 EU/mg (< 0.1 ng/mg)
Grade:	Crystallography grade

Target Details

Target:	IFITM2
Alternative Name:	IFITM2 (IFITM2 Products)
Background:	Interferon-induced transmembrane protein 2 (Dispanin subfamily A member 2c) (DSPA2c)
	(Interferon-inducible protein 1-8D), FUNCTION: 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 (PubMed:33563656,
	PubMed:26354436). Active against multiple viruses, including influenza A virus, SARS
	coronaviruses (SARS-CoV and SARS-CoV-2), Marburg virus (MARV), Ebola virus (EBOV), Dengu
	virus (DNV), West Nile virus (WNV), human immunodeficiency virus type 1 (HIV-1), hepatitis C
	virus (HCV) and vesicular stomatitis virus (VSV) (PubMed:33563656, PubMed:26354436,
	PubMed:33270927, PubMed:33239446). Can inhibit: influenza virus hemagglutinin protein-
	mediated viral entry, MARV and EBOV GP1,2-mediated viral entry, SARS-CoV and SARS-CoV-2
	protein-mediated viral entry and VSV G protein-mediated viral entry (PubMed:33563656).
	Induces cell cycle arrest and mediates apoptosis by caspase activation and in p53-independen
	manner. In hepatocytes, IFITM proteins act in a coordinated manner to restrict HCV infection b
	targeting the endocytosed HCV virion for lysosomal degradation (PubMed:26354436). IFITM2
	and IFITM3 display anti-HCV activity that may complement the anti-HCV activity of IFITM1 by
	inhibiting the late stages of HCV entry, possibly in a coordinated manner by trapping the virion
	in the endosomal pathway and targeting it for degradation at the lysosome
	(PubMed:26354436). {ECO:0000269 PubMed:19544527, ECO:0000269 PubMed:20064371,
	ECO:0000269 PubMed:20534863, ECO:0000269 PubMed:20943977,
	ECO:0000269 PubMed:21177806, ECO:0000269 PubMed:21253575,
	ECO:0000269 PubMed:22479637, ECO:0000269 PubMed:26354436,
	ECO:0000269 PubMed:33239446, ECO:0000269 PubMed:33270927,
	ECO:0000269 PubMed:33563656}.
Molecular Weight:	14.6 kDa
UniProt:	Q01629
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
	guarantee though.
Comment:	ALiCE®, our Almost Living Cell-Free Expression System is based on a lysate obtained from

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Restrictions:

For Research Use only

Handling

Format:	Liquid
Buffer:	The buffer composition is at the discretion of the manufacturer. If you have a special request, please contact us.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	Unlimited (if stored properly)

Images

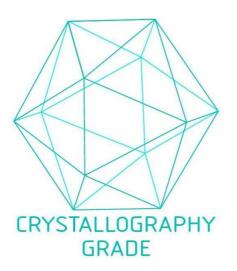


Image 1. "Crystallography Grade" protein due to multi-step, protein-specific purification process