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# IFIT3 Protein (AA 1-490) (His tag)





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## Overview

Quantity:	1 mg
Target:	IFIT3
Protein Characteristics:	AA 1-490
Origin:	Human
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This IFIT3 protein is labelled with His tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS), Crystallization (Crys)

## **Product Details**

Sequence:

MSEVTKNSLE KILPQLKCHF TWNLFKEDSV SRDLEDRVCN QIEFLNTEFK ATMYNLLAYI KHLDGNNEAA LECLRQAEEL IQQEHADQAE IRSLVTWGNY AWVYYHLGRL SDAQIYVDKV KQTCKKFSNP YSIEYSELDC EEGWTQLKCG RNERAKVCFE KALEEKPNNP EFSSGLAIAM YHLDNHPEKQ FSTDVLKQAI ELSPDNQYVK VLLGLKLQKM NKEAEGEQFV EEALEKSPCQ TDVLRSAAKF YRRKGDLDKA IELFQRVLES TPNNGYLYHQ IGCCYKAKVR QMQNTGESEA SGNKEMIEAL KQYAMDYSNK ALEKGLNPLN AYSDLAEFLE TECYQTPFNK EVPDAEKQQS HQRYCNLQKY NGKSEDTAVQ HGLEGLSISK KSTDKEEIKD QPQNVSENLL PQNAPNYWYL QGLIHKQNGD LLQAAKCYEK ELGRLLRDAP SGIGSIFLSA SELEDGSEEM GQGAVSSSPR ELLSNSEQLN

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.
- Human IFIT3 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 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:

Grade:

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

- 1. 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.
- 2. 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: >95 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.

Sterility: 0.22 µm filtered

Endotoxin Level: Protein is endotoxin free.

Crystallography grade

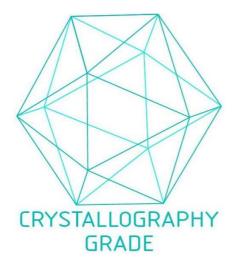
# **Target Details**

Target:	IFIT3
Alternative Name:	IFIT3 (IFIT3 Products)
Background:	IFN-induced antiviral protein which acts as an inhibitor of cellular as well as viral processes, cell
	migration, proliferation, signaling, and viral replication. Enhances MAVS-mediated host antiviral
	responses by serving as an adapter bridging TBK1 to MAVS which leads to the activation of
	TBK1 and phosphorylation of IRF3 and phosphorylated IRF3 translocates into nucleus to
	promote antiviral gene transcription. Exihibits an antiproliferative activity via the up-regulation
	of cell cycle negative regulators CDKN1A/p21 and CDKN1B/p27. Normally, CDKN1B/p27
	turnover is regulated by COPS5, which binds CDKN1B/p27 in the nucleus and exports it to the
	cytoplasm for ubiquitin-dependent degradation. IFIT3 sequesters COPS5 in the cytoplasm,
	thereby increasing nuclear CDKN1B/p27 protein levels. Upregulates CDKN1A/p21 by
	downregulating MYC, a repressor of CDKN1A/p21. Can negatively regulate the apoptotic
	effects of IFIT2. {ECO:0000269 PubMed:17050680, ECO:0000269 PubMed:20686046,
	ECO:0000269 PubMed:21190939, ECO:0000269 PubMed:21642987,
	ECO:0000269 PubMed:21813773}.
Molecular Weight:	56.9 kDa Including tag.
UniProt:	014879
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:	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.

# Handling

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