

Datasheet for ABIN7554144
IFIT1 Protein (AA 1-478) (His tag)



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Overview

Quantity:	1 mg
Target:	IFIT1
Protein Characteristics:	AA 1-478
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This IFIT1 protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Purpose:	Custom-made recombinat IFIT1 Protein expressed in mammalian cells.
Sequence:	<p>MSTNGDDHQV KDSLEQLRCH FTWELSIDDD EMPDLENRVL DQIEFLDTKY SVGIHNLLAY VKHLKGQNEE ALKSLKEAEN LMQEEHDNQA NVRS�VTWGN FAWMYHYMGR LAEAQTYLDK VENICKLSN PFRYRMECPE IDCEEGWALL KCGGKNYERA KACFEKVLEV DPENPESSAG YASAYRLDG FKLATKNHKP FSLPLRQAV RLNPДNGYIK VLLALKLQDE GQEAEGEKYI EEALANMSSQ TYVFRYAAKF YRRKGSVDKA LELLKKALQE TPTSLLHHQ IGLCYKAQMI QIPEATKGQP RGQNREKLDK MIRSАIFHFE SAVEKKPTFE VAHLDLARMY IEAGNHRKAE ENFQKLLCMK PVVEETMQDI HFHYGRFQEF QKKSДVNАI HYLKAİKIEQ ASLTRDKSIN SLKKLVLRKL RRKALDLESL SLLGFVYKLE GNMNEALEYY ERALRLAADF ENSVRQGP Sequence without tag. The proposed Purification-Tag is based on experiences 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.</p>

Product Details

Characteristics:

Key Benefits:

- Made to order protein - from design to production - by highly experienced protein experts.
- Protein expressed in mammalian cells and purified in one-step affinity chromatography
- The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins.
- 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 try to ensure that you receive soluble protein.

If you are not interested in a full length protein, please contact us for individual protein fragments.

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.

Purity:

> 90 % as determined by Bis-Tris Page, Western Blot

Grade:

custom-made

Target Details

Target:

IFIT1

Alternative Name:

IFIT1 ([IFIT1 Products](#))

Background:

Interferon-induced protein with tetratricopeptide repeats 1 (IFIT-1) (Interferon-induced 56 kDa protein) (IFI-56K) (P56),FUNCTION: Interferon-induced antiviral RNA-binding protein that specifically binds single-stranded RNA bearing a 5'-triphosphate group (PPP-RNA), thereby acting as a sensor of viral single-stranded RNAs and inhibiting expression of viral messenger RNAs. Single-stranded PPP-RNAs, which lack 2'-O-methylation of the 5' cap and bear a 5'-triphosphate group instead, are specific from viruses, providing a molecular signature to distinguish between self and non-self mRNAs by the host during viral infection. Directly binds PPP-RNA in a non-sequence-specific manner. Viruses evolved several ways to evade this restriction system such as encoding their own 2'-O-methylase for their mRNAs or by stealing host cap containing the 2'-O-methylation (cap snatching mechanism). Exhibits antiviral activity against several viruses including human papilloma and hepatitis C viruses.

{ECO:0000269|PubMed:19008854, ECO:0000269|PubMed:19416887, ECO:0000269|PubMed:21976647, ECO:0000269|PubMed:23334420}.

Target Details

Molecular Weight:	55.4 kDa
UniProt:	P09914
Pathways:	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 guarantee though.
Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	The buffer composition 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:	12 months