Datasheet for ABIN7548427

IFIT5 Protein (AA 1-482) (His tag)

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Overview

Quantity:	1 mg
Target:	IFIT5
Protein Characteristics:	AA 1-482
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This IFIT5 protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant IFIT5 Protein expressed in mammalian cells.
Sequence:	MSEIRKDTLK AILLELECHF TWNLLKEDID LFEVEDTIGQ QLEFLTTKSR LALYNLLAYV KHLKGQNKDA LECLEQAEEI IQQEHSDKEE VRSLVTWGNY AWVYYHMDQL EEAQKYTGKI GNVCKKLSSP SNYKLECPET DCEKGWALLK FGGKYYQKAK AAFEKALEVE PDNPEFNIGY AITVYRLDDS DREGSVKSFS LGPLRKAVTL NPDNSYIKVF LALKLQDVHA EAEGEKYIEE ILDQISSQPY VLRYAAKFYR RKNSWNKALE LLKKALEVTP TSSFLHHQMG LCYRAQMIQI KKATHNRPKG KDKLKVDELI SSAIFHFKAA MERDSMFAFA YTDLANMYAE GGQYSNAEDI FRKALRLENI TDDHKHQIHY HYGRFQEFHR KSENTAIHHY LEALKVKDRS PLRTKLTSAL KKLSTKRLCH NALDVQSLSA LGFVYKLEGE KRQAAEYYEK AQKIDPENAE FLTALCELRL SI **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.**
Specificity:	If you are looking for a specific domain and are interested in a partial protein or a different

Product Details

	isoform, please contact us regarding an individual offer.
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, anti-tag ELISA, Western Blot and analytical SEC (HPLC)
Grade:	custom-made

Target Details

Target:	IFIT5
Alternative Name:	IFIT5 (IFIT5 Products)
Background:	Interferon-induced protein with tetratricopeptide repeats 5 (IFIT-5) (Interferon-induced 58 kDa protein) (Retinoic acid- and interferon-inducible 58 kDa protein) (P58),FUNCTION: Interferon-induced RNA-binding protein involved in the human innate immune response. Has a broad and adaptable RNA structure recognition important for RNA recognition specificity in antiviral defense. Binds precursor and processed tRNAs as well as poly-U-tailed tRNA fragments (PubMed:25092312, PubMed:23317505, PubMed:23774268). Specifically binds single-stranded RNA bearing a 5'-triphosphate group (PPP-RNA), thereby acting as a sensor of viral single-stranded 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 (PubMed:23334420). Also recognizes and selectively binds AT-rich dsDNA (PubMed:23774268). Additionally, as a mediator in innate

Target Details

	immunity, positively regulates IKK-NFKB signaling by sinergizing the recruitment of IKK to MAP3K7 (PubMed:26334375). {ECO:0000269|PubMed:23317505, ECO:0000269|PubMed:23334420, ECO:0000269|PubMed:23774268, ECO:0000269|PubMed:25092312, ECO:0000269|PubMed:26334375}.
Molecular Weight:	55.8 kDa
UniProt:	Q13325

Application Details

Application Notes:	We expect the protein to work for functional studies. 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