

Product datasheet for TP306499

IFIT5 (NM_012420) Human Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant protein of human interferon-induced protein with tetratricopeptide repeats 5 (IFIT5), 20 µg
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>RC206499 protein sequence Red =Cloning site Green =Tags(s)
	<p>MSEIRKDTLKAILLELECHFTWNLLKEDIDLFEVEDTIGQQLEFLTTKSRLALYNLLAYVKHLKGQNKDA LECLEQAEIQQEHSDKEEVRSVLTWGNyawwyyHMDQLEEAQKYTGKIGNVCKKLSSPSNYKLECPET DCEKGWALLKFGGKYYQKAKAAFEKALEVDPNPEFNIGYAITVYRLDDSDREGSVKSFSLGPLRKAVTL NPDNSYIKVFLALKLQDVHAEAEGEKYIEILDQISSQPYVLRyAAKfYRRKNSWnkALELLKKALEVTP TSSFLHHQMGLCYRAQMIQIKKATHNRPKGDKLKVDELISsAIFHFKAAMERDSMFafAYTDLANMYAE GGQYSNAEDIFRKALRLENITDDHKHQIHYYHGRFQEFHRKSENTAIHHYLEALKVKDRSPLRtKLTSAL KKLSTKRLCHNALDVQSLsALGFVYKLEGEKRQAAEYyEKAQKIDPENAEFLtALCELRLSI</p> <p>TRTRPLEQKLISEEDLAANDILDYKDDDDKV</p>
Tag:	C-Myc/DDK
Predicted MW:	55.7 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
Preparation:	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Note:	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
Storage:	Store at -80°C.
Stability:	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.



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RefSeq: [NP_036552](#)

Locus ID: 24138

UniProt ID: [Q13325](#)

RefSeq Size: 4034

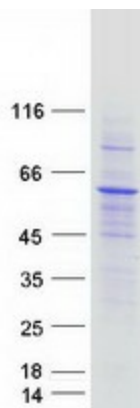
Cytogenetics: 10q23.31

RefSeq ORF: 1446

Synonyms: ISG58; P58; RI58

Summary: 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 immunity, regulates positively IKK-NFKB signaling by sinergizing the recruitment of IKK to MAP3K7 (PubMed:26334375).[UniProtKB/Swiss-Prot Function]

Product images:



Coomassie blue staining of purified IFIT5 protein (Cat# TP306499). The protein was produced from HEK293T cells transfected with IFIT5 cDNA clone (Cat# [RC206499]) using MegaTran 2.0 (Cat# [TT210002]).