

Product datasheet for PH306499

IFIT5 (NM_012420) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	IFIT5 MS Standard C13 and N15-labeled recombinant protein (NP_036552)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC206499
Predicted MW:	55.8 kDa
Protein Sequence:	>RC206499 protein sequence Red=Cloning site Green=Tags(s)

MSEIRKDTLKAILLELECHFTWNLLKEDIDLFEVEDTIGQQLEFLTTKSRLALYNLLAYVKHLKGQNKDA
LECLEQAEEIIQQEHSDKEEVRLVTVGNAYWVYHMDQLEEAQKYGKIGNVCKKLSSPSNYKLECPET
DCEKGWALLKFGGKYYQKAKAAFEKALEVEPDNPEFNIGYAITVYRLDDSDREGSVKSFSLGPLRKAVTL
NPDNSYIKVFLALKLQDVHAEAEGEKYIEEILDQISSQPVYLRYAAKFYRRKNSWNKALELLKKALEVTP
TSSFLHHQMGLCYRAQMIQIKKATHNRPKGDKLKVDELISSAIFHFKAAMERDSMFAFAYTDLANMYAE
GGQYSNAEDI FRKALRLENITDDHKHQIHYYHGRFQEFHRKSENTAIHHYLEALKVKDRSPLRTKLTAL
KKLSTKRLCHNALDVQSLSALGFVYKLEGEKRQAAEYYEKAQKIDPENAEFLTALCELRLSI

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- ¹³ C ₆ , ¹⁵ N ₄]-L-Arginine and [U- ¹³ C ₆ , ¹⁵ N ₂]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.
RefSeq:	<u>NP_036552</u>
RefSeq Size:	4034
RefSeq ORF:	1446
Synonyms:	ISG58; P58; RI58



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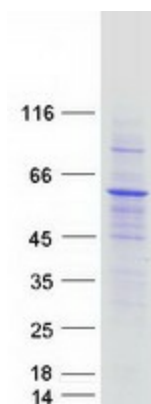
Locus ID: 24138

UniProt ID: [Q13325](#)

Cytogenetics: 10q23.31

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 synergizing 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]).