

## Product datasheet for TP300610M

### IFIT3 (NM\_001549) Human Recombinant Protein

#### Product data:

**Product Type:** Recombinant Proteins  
**Description:** Recombinant protein of human interferon-induced protein with tetratricopeptide repeats 3 (IFIT3), transcript variant 1, 100 µg

**Species:** Human

**Expression Host:** HEK293T

**Expression cDNA Clone or AA Sequence:** >RC200610 protein sequence  
**Red**=Cloning site **Green**=Tags(s)

MSEVTKNSLEKILPQLKCHFTWNLFKEDSVSRDLEDRCVNCQIEFLNTEFKATMYNLLAYIKHLDGNNEAA  
LECLRQAEELIQQEHADQAEIRSLVTWGNyawvyyHLGRLSDAQIYVDKVKQTCKKFSNPYSIEYSELDC  
EEGWTQLKCGRNERAKVCFEKALEEKPNNPEFSSGLAIAMYHLDNHPEKQFSTDVLLKQAIELSPDNQYVK  
VLLGLKLQKMNKEAEGEQFVEEALEKSPCQTDVLRSAKFYRRKGDLDKAIELFQRVLESTPNNGYLYHQ  
IGCCYKAKVRQMONTGESEASGNKEMIEALKQYAMDYSNKALEKGLNPLNAYSDLAEFLETECYQTPFNK  
EVPDAEKQQSHQRYCNLQKYNGKSEDTAVQHGLEGLSISKKSTDKEIKDQPQNVSENLLPQNAPNYWYL  
QGLIHKQNGDLLQAAKCYEKELGRLLRDAPSGIGSIFLSASELEDGSEEMGQGAVSSSPRELLSNSEQLN

**TRTRPLEQKLISEEDLAANDILDYKDDDDKV**

**Tag:** C-Myc/DDK

**Predicted MW:** 55.8 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.

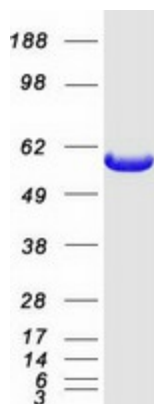
**Stability:** Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.



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RefSeq:	<a href="#">NP_001540</a>
Locus ID:	3437
UniProt ID:	<a href="#">Q14879</a> , <a href="#">Q5T765</a>
RefSeq Size:	2578
Cytogenetics:	10q23.31
RefSeq ORF:	1470
Synonyms:	CIG-49; cig41; GARG-49; IFI60; IFIT4; IRG2; ISG60; P60; RIG-G
Summary:	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. Exhibits 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.[UniProtKB/Swiss-Prot Function]

### Product images:



Coomassie blue staining of purified IFIT3 protein (Cat# [TP300610]). The protein was produced from HEK293T cells transfected with IFIT3 cDNA clone (Cat# [RC200610]) using MegaTran 2.0 (Cat# [TT210002]).