

Product datasheet for TP314701

IFIT3 (NM_001031683) Human Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant protein of human interferon-induced protein with tetratricopeptide repeats 3 (IFIT3), transcript variant 2, 20 µg
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>RC214701 protein sequence Red =Cloning site Green =Tags(s)

MSEVTKNSLEKILPQLKCHFTWNLFKEDSVSRDLEDRVCNQIEFLNTEFKATMYNLLAYIKHLDGNNEAA
LECLRQAEELIQQEHADQAEIRSLVTWGNyawvyyHLGRLSDAQIYVDKVKQTCKKFSNPYSIEYSELDC
EEGWTQLKCGRNERAKVCFEKALEEKPNNPEFSSGLAIAMYHLDNHPEKQFSTDVCLKQAIELSPDNQYVK
VLLGLKLQKMNKEAEGEQFVEEALEKSPCQTDVLRSAKFYRRKGDLDKAIELFQRVLESTPNNGYLYHQ
IGCCYKAKVRQMONTGESEASGNKEMIEALKQYAMDYSNKALEKGLNPLNAYSDLAEFLETECYQTPFNK
EVPDAEKQQSHQRYCNLQKYNKSEDTAVQHGLEGLSISKKSTDKEIKDQPQNVSENLLPQNAPNYWYL
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: [NP_001026853](#)

Locus ID: 3437

UniProt ID: [Q14879](#), [Q5T765](#)

RefSeq Size: 2467

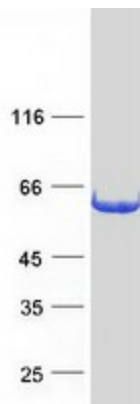
Cytogenetics: 10q23.31

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# TP314701). The protein was produced from HEK293T cells transfected with IFIT3 cDNA clone (Cat# [RC214701]) using MegaTran 2.0 (Cat# [TT210002]).