

Recombinant Human IFIT3 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. IFIT3-2450H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	IFIT3 MS Standard C13 and N15-labeled recombinant protein (NP_001026853) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
Description	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.
Molecular Mass	56 kDa
AA Sequence	MSEVTKNSLEKILPQLKCHFTWNLFKEDSVSRDLEDVVCNQIEFLNTEFKATMYNLL

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

AYIKHLDGNNEAALECLRQAEELIQQEHADQAEIRSLVTWGNyawvyyHLGRLSDA
 QIYVDKVKQTCKKFSNPYSIEYSELDCEEGWTQLKCGRNERAKVCFEKALEEKPNN
 PEFSSGLAIAMYHLDNHPEKQFSTDVLKQAIELSPDNQYVKVLLGLKLQKMNKEAEG
 EQFVEEALEKSPCQTDVLRSAKFYRRKGDLDKAIELFQRVLESTPNNGYLYHQIGC
 CYKAKVRQMONTGESEASGNKEMIEALKQYAMDYSNKALEKGLNPLNAYSDLAEFL
 ETECYQTPFNKEVPDAEKQQSHQRYCNLQKYNKSEDTAVQHGLEGLSISKKSTDK
 EEIKDQPQNVSENLLPQNAPNYWYLQGLIHKQNGDLLQAAKCYEKELGRLLRDAPS
 GIGSIFLSASELEDGSEEMGQGAVSSSPRELLSNSEQLNTRTRPLEQKLISEEDLAAN
 DILDYKDDDDKV

Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Stability	Stable for 3 months from receipt of products under proper storage and handling conditions.
Storage	Store at -80 centigrade. Avoid repeated freeze-thaw cycles.
Concentration	50 µg/mL as determined by BCA
Storage Buffer	100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name	IFIT3 interferon-induced protein with tetratricopeptide repeats 3 [Homo sapiens (human)]
Official Symbol	IFIT3
Synonyms	IFIT3; interferon induced protein with tetratricopeptide repeats 3; P60; IRG2; IFI60; IFIT4; ISG60; RIG-G; cig41; CIG-49; GARG-49; interferon-induced protein with tetratricopeptide repeats 3; CIG49; IFI-60K; IFIT-3; IFIT-4; ISG-60; interferon-induced

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60 kDa protein; interferon-induced protein with tetratricopeptide repeats 4; retinoic acid-induced gene G protein

Gene ID	3437
mRNA Refseq	NM_001031683
Protein Refseq	NP_001026853
MIM	604650
UniProt ID	O14879

SDS-PAGE

