

Product datasheet for PH314701

IFIT3 (NM_001031683) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	IFIT3 MS Standard C13 and N15-labeled recombinant protein (NP_001026853)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC214701
Predicted MW:	56 kDa
Protein Sequence:	>RC214701 protein sequence Red=Cloning site Green=Tags(s)

MSEVTKNSLEKILPQLKCHFTWNLFKEDSVSRDLEDRCVNCQIEFLNTEFKATMYNLLAYIKHLDGNNEAA
LECLRQAEELIQQEHADQAEIRSLVTWGNyawvyyHLGRLSAQIYVDKVKQTCKKFSNPYSIEYSELDC
EEGWTQLKCGRNERAKVCFEKALEEKPNPEFSSGLAIAMYHLDNHPEKQFSTDVLKQAIELSPDNQYVK
VLLGLKLQKMNKEAEGEQFVEEALEKSPCQTDVLRSAAKFYRRKGDLDKAIELFQRVLESTPNNGYLHQ
IGCCYKAKVRQMONTGESEASGNKEMIEALKQYAMDYSNKALEKGLNPLNAYSDLAEFLETECYQTPFNK
EVPDAEKQQSHQRYCNLQKYNKSEDTAVQHGLEGLSISKKSTDKEEIKDQPQNVSENLLPQNAPNYWYL
QGLIHKQNGDLLQAAKCYEKELGRLLRDAPSGIGSIFLSASELEDGSEEMGQAVSSSPRELLSNSEQLN

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

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_001026853</u>
RefSeq Size:	2467
RefSeq ORF:	1470
Synonyms:	CIG-49; cig41; GARG-49; IFI60; IFIT4; IRG2; ISG60; P60; RIG-G



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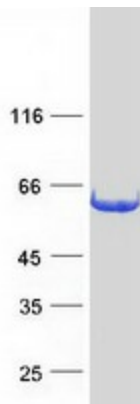
Locus ID: 3437

UniProt ID: [O14879](#), [Q5T765](#)

Cytogenetics: 10q23.31

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]).