

Product datasheet for PH305582

IFIT2 (NM_001547) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	IFIT2 MS Standard C13 and N15-labeled recombinant protein (NP_001538)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC205582
Predicted MW:	56.2 kDa
Protein Sequence:	>RC205582 protein sequence Red=Cloning site Green=Tags(s)

MSENNKNSLESSLRQLKCHFTWNLMEGENSLDDFEDKVFYRTEFQNFREFKATMCNLLAYLKLKQGNEAA
LECLRKAEEELIQQEHADQAEIRSLVTWGNyawvyyhmgrlSDVQIYVDKVRHVCEKFSSPYRIESPELDC
EEGWTRLKCGGNQNERAKVCFEKALEKKPKNPEFTSGLAIASYRLDNWPPSQNAIDPLRQAIRLNPDNQY
LKVLLALKLHKMREEGEEGEGEKLVEEALEKAPGVTDLRSAAKFYRRKDEPKAIELLKKALEYIPNN
AYLHCQIGCCYRAKVQVMNLRNGMYGKRKLELIGHAVAHLKKADEANDLFRVCSILASLHALADQY
EEAEYFQKEFSKELTPVAKQLLHLRYGNFQLYQMKCEDKAIHHFIEGVKINQKSREKEKMKDKLQKIAK
MRLSKNGADSEALHVLAFQLNEKMQQADEDSERGLESGSLIPSASSWNGEWRIEMWCPLGYC

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_001538</u>
RefSeq Size:	3505
RefSeq ORF:	1452
Synonyms:	cig42; G10P2; GARG-39; IFI-54; IFI-54K; IFI54; IFIT-2; ISG-54 K; ISG-54K; ISG54; P54



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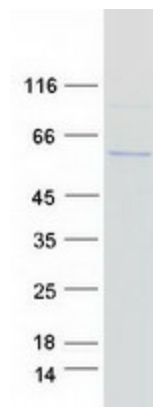
Locus ID: 3433

UniProt ID: [P09913](#), [Q05DN2](#)

Cytogenetics: 10q23.31

Summary: IFN-induced antiviral protein which inhibits expression of viral messenger RNAs lacking 2'-O-methylation of the 5' cap. The ribose 2'-O-methylation would provide a molecular signature to distinguish between self and non-self mRNAs by the host during viral infection. Viruses evolved several ways to evade this restriction system such as encoding their own 2'-O-methylase for their mRNAs or by stealing host cap containing the 2'-O-methylation (cap snatching mechanism). Binds AU-rich viral RNAs, with or without 5' triphosphorylation, RNA-binding is required for antiviral activity. Can promote apoptosis.[UniProtKB/Swiss-Prot Function]

Product images:



Coomassie blue staining of purified IFIT2 protein (Cat# [TP305582]). The protein was produced from HEK293T cells transfected with IFIT2 cDNA clone (Cat# [RC205582]) using MegaTran 2.0 (Cat# [TT210002]).