

Product datasheet for PH301617

IFITM1 (NM_003641) Human Mass Spec Standard

Product data:

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|---------------------------------------|--|
| Product Type: | Mass Spec Standards |
| Description: | IFITM1 MS Standard C13 and N15-labeled recombinant protein (NP_003632) |
| Species: | Human |
| Expression Host: | HEK293 |
| Expression cDNA Clone or AA Sequence: | RC201617 |
| Predicted MW: | 13.9 kDa |
| Protein Sequence: | >RC201617 protein sequence Red=Cloning site Green=Tags(s) MHKEEHEVAVLGAPPSTILPRSTVINIHSETSVPDHVVWVSLFNTLFLNWCLGFIAFAYSVKSRDRKMVG DVTGAQAYASTAKCLNIWALILGILMTIGFILLLVFGSVTVYHIMLQIIQEKRGY 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- 13C6, 15N4]-L-Arginine and [U- 13C6, 15N2]-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: | NP_003632 |
| RefSeq Size: | 733 |
| RefSeq ORF: | 375 |
| Synonyms: | 9-27; CD225; DSPA2a; IFI17; LEU13 |
| Locus ID: | 8519 |
| UniProt ID: | P13164 , A0A024R210 |
| Cytogenetics: | 11p15.5 |



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Summary:

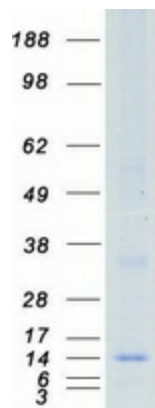
IFN-induced antiviral protein which inhibits the entry of viruses to the host cell cytoplasm, permitting endocytosis, but preventing subsequent viral fusion and release of viral contents into the cytosol. Active against multiple viruses, including influenza A virus, SARS coronavirus (SARS-CoV), Marburg virus (MARV), Ebola virus (EBOV), Dengue virus (DENV), West Nile virus (WNV), human immunodeficiency virus type 1 (HIV-1) and hepatitis C virus (HCV). Can inhibit: influenza virus hemagglutinin protein-mediated viral entry, MARV and EBOV GP1,2-mediated viral entry and SARS-CoV S protein-mediated viral entry. Also implicated in cell adhesion and control of cell growth and migration. Plays a key role in the antiproliferative action of IFN-gamma either by inhibiting the ERK activation or by arresting cell growth in G1 phase in a p53-dependent manner. Acts as a positive regulator of osteoblast differentiation. [UniProtKB/Swiss-Prot Function]

Protein Families:

Druggable Genome, Transmembrane

Protein Pathways:

B cell receptor signaling pathway

Product images:

Coomassie blue staining of purified IFITM1 protein (Cat# [TP301617]). The protein was produced from HEK293T cells transfected with IFITM1 cDNA clone (Cat# [RC201617]) using MegaTran 2.0 (Cat# [TT210002]).