

Datasheet for ABIN7563985
IFIT1 Protein (AA 1-463) (His tag)



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Overview

| | |
|-------------------------------|--|
| Quantity: | 1 mg |
| Target: | IFIT1 |
| Protein Characteristics: | AA 1-463 |
| Origin: | Mouse |
| Source: | HEK-293 Cells |
| Protein Type: | Recombinant |
| Purification tag / Conjugate: | This IFIT1 protein is labelled with His tag. |
| Application: | Western Blotting (WB), SDS-PAGE (SDS) |

Product Details

| | |
|-----------|--|
| Purpose: | Custom-made recombinat Ifit1 Protein expressed in mammalian cells. |
| Sequence: | <p>MGENADGDQV MENLLQLRCH FTWKLLFENN DIPDLEVRIS EQVQFLDIKN PLGMHNLLAY</p> <p>VRHLKGQQDE ALQSLKEAEA LIQSEQLSKR SLATWGNCAW LHYHRGSLAE AQIYLDKVEK</p> <p>VCKEFSSPFR YRLECAEMDC EEGWALLKCG GGNYSQAMAC FAKALKVEPE NPEYNTGYAV</p> <p>VAYRQDLDDN FISLEPLRKA VRLNPEDPYL KVLALQLQD LGEHVEAEAH IEEALSSTSC</p> <p>QSYVIRYAAK YFRRKHRVDK ALHLLNRLQ ASPSSGYLHY QKGLCYKQI SQLRTSRNRQ</p> <p>PRRQDNVQEL AQQAIEHFQE TLKLRPTFEM AAYVCMAEVQA EHQYEEAER NFQKALNNKT</p> <p>LVAHIEQDIH LRYGRFLQFH KQSEDKAITL YLKGKLVEEK SFAWRKLLTA LEKVAERRVC</p> <p>QNVHLVESTS LLGLVYKLGK QEKNALFYFE KALRLTGEMN PAF Sequence without tag. The proposed Purification-Tag is based on experiences with the expression system, a different complexity of the protein could make another tag necessary. In case you have a special request, please contact us.</p> |

Product Details

Characteristics:

Key Benefits:

- Made to order protein - from design to production - by highly experienced protein experts.
- Protein expressed in mammalian cells and purified in one-step affinity chromatography
- The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins.
- State-of-the-art algorithm used for plasmid design (Gene synthesis).

This protein is a made-to-order protein and will be made for the first time for your order. Our experts in the lab try to ensure that you receive soluble protein.

If you are not interested in a full length protein, please contact us for individual protein fragments.

The big advantage of ordering our made-to-order proteins in comparison to ordering custom made proteins from other companies is that there is no financial obligation in case the protein cannot be expressed or purified.

Purity:

> 90 % as determined by Bis-Tris Page, Western Blot

Grade:

custom-made

Target Details

Target:

IFIT1

Alternative Name:

Ifit1 ([IFIT1 Products](#))

Background:

Interferon-induced protein with tetratricopeptide repeats 1 (IFIT-1) (Glucocorticoid-attenuated response gene 16 protein) (GARG-16) (Interferon-induced 56 kDa protein) (IFI-56K) (P56), FUNCTION: Interferon-induced antiviral RNA-binding protein that specifically binds single-stranded RNA bearing a 5'-triphosphate group (PPP-RNA), thereby acting as a sensor of viral single-stranded RNAs and inhibiting expression of viral messenger RNAs. Single-stranded PPP-RNAs, which lack 2'-O-methylation of the 5' cap and bear a 5'-triphosphate group instead, are specific from viruses, providing a molecular signature to distinguish between self and non-self mRNAs by the host during viral infection. Directly binds PPP-RNA in a non-sequence-specific manner. 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). {ECO:0000269|PubMed:21085181, ECO:0000269|PubMed:22589727}.

Molecular Weight:

53.7 kDa

Target Details

UniProt: [Q64282](#)

Pathways: [Hepatitis C](#)

Application Details

Application Notes: In addition to the applications listed above we expect the protein to work for functional studies as well. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.

Restrictions: For Research Use only

Handling

Format: Liquid

Buffer: The buffer composition is at the discretion of the manufacturer.

Handling Advice: Avoid repeated freeze-thaw cycles.

Storage: -80 °C

Storage Comment: Store at -80°C.

Expiry Date: 12 months