

Recombinant Mouse IFIT1 Protein

For Research Use Only

1. Basic Product Information

Catalog No.: REP51676

Size: 10ug, 100ug

Protein Name: Antiviral innate immune response effector IFIT1 (Glucocorticoid-attenuated response gene 16 protein) (GARG-16) (Interferon-induced 56 kDa protein) (IFI-56K) (P56) (Interferon-induced protein with tetratricopeptide repeats 1) (IFIT-1)

Synonym: Ifit1, Garg16, Ifi56, Ifit1b, Isg56

UniProt ID: Q64282

UniProt Link: www.uniprot.org/uniprotkb/Q64282/entry

Species Source: Mouse

Expression System: HEK293T eukaryotic cell expression system Sequence

Length: 463 AA

Molecular Weight: 54 KD

Protein Tag: C-terminal His6

2. Amino Acid Sequence

MGENADGDQVMENLLQLRCHFTWKLLFENNDIPDLEVRISQVQFLDIKNPLGMHNLLAYVRHLKG
QQDEALQSLKEAEALIQSEQLSKRSLATWGNCAWLHYHRGSLAEAQIYLDKVEKVCKEFSSPFRYRL
ECAEMDCEEGWALLKCGGGNYKQAMACFAKALKVEPENPEYNTGYAVVAYRQDLDDNFISLEPLR
KAVRLNPEDPYLKVLLALKLQDLGEHVEAEAHIEEALSSTSCQSYVIRYAAKYFRKHRVDKALHLLN
RALQASPSSGYLHYQKGLCYKQQISQLRTSRNRQPRRQDNVQELAQQAIEHFQETLKL RPTFEMAY
VCMAEVQAEIHQYEEAERNFQKALNNKTLVAHIEQDIHLRYGRFLQFHKQSEDKAITLYLKGLKVEEK
SFAWRKLLTALEKVAERRVCQNVHLVESTSLGLVYKLGKQEKNALFYYEKALRLTGEMNPAF

3. Buffer Composition

Liquid format: PBS-based buffer containing 50% glycerol. Glycerol concentration can be customized upon customer request; please state special requirements when placing your order.

Lyophilized format: Buffer before lyophilization is PBS supplemented with 6% trehalose.

4. Storage Conditions

Upon receipt, store the product at -20 °C or -80 °C. Aliquot the product for on-demand use to preserve protein activity and prevent denaturation and inactivation caused by repeated freeze-thaw cycles.

5. Product Description

This product is recombinant Antiviral innate immune response effector IFIT1 (Glucocorticoid-attenuated response gene 16 protein) (GARG-16) (Interferon-induced 56 kDa protein) (IFI-56K) (P56) (Interferon-induced protein with tetratricopeptide repeats 1) (IFIT-1) produced using the HEK293T eukaryotic cell expression system. It is suitable for in-vitro functional assays, protein-protein interaction studies, antibody preparation and other biomedical research applications.

Protein Function: Plays a key role in the innate immune response as part of an interferon-dependent multiprotein complex, recognizing and sequestering viral RNAs that lack host-specific 2'-O-methylation at their 5' cap. By distinguishing these RNAs from host mRNAs, inhibits their translation by competing with the translation initiation factor eIF4E.

Subcellular Localization: Cytoplasm .

6. Notes

- Avoid repeated freeze-thaw cycles to maintain protein stability and biological activity.
- Please specify special buffer-composition requirements at the time of order placement.
- For research use only. Not intended for clinical diagnosis, therapeutic use or commercial manufacturing.