

Recombinant Mouse IF44L Protein

For Research Use Only

1. Basic Product Information

Catalog No.: REP51865

Size: 10ug, 100ug

Protein Name: Interferon-induced protein 44-like [Cleaved into: Minor histocompatibility antigen HA-28 (HLA-HA28) (IFL8)]

Synonym: Ifi44l, H28

UniProt ID: Q9BDB7

UniProt Link: www.uniprot.org/uniprotkb/Q9BDB7/entry

Species Source: Mouse

Expression System: HEK293T eukaryotic cell expression system Sequence

Length: 447 AA

Molecular Weight: 50 KD

Protein Tag: C-terminal His6

2. Amino Acid Sequence

MKV TARLTWIEEKILEKLLGNASLTLLYQSSAHKNCVSEMTQKYSLQGSTMVTFHLEKDVVGVFILE
NFPRLVSEKPCTCAWFSLKRNNSSGISALFLNTKVIVDSEELIIFSLDGLSLSVTPLRGFTLALNDTVM
NGLELNLGHGFLPVECEIFRVDGIKKNPSTFIKKMVTAEQHRGKLLSALRAYKPYKDLVSEVRILLVGPV
GSGKSSFFNSVKSFAFQGHLTRQAIVGSDSESSITKQYRVYSIKDGKSGETLPFMLCDSMGLEEGEEAG
LCIDDIPHILQGCVPDRYQFNPCEPMKPKHSPHAASPLKDRIHCVAFVLHINSVNTLSDKMVAKLKKI
RKDVVDCGIGYVALLTNVEEYDEVLDLDDSFANMTETVTSLSQVQNVQKWLNIPIANILMVSNYASERRL
EPMKDILVFAALRQMLRAADDALEDLPLEDTGNLAPF

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 Interferon-induced protein 44-like [Cleaved into: Minor histocompatibility antigen HA-28 (HLA-HA28) (IFL8)] 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: Type I interferon-stimulated gene (ISG) that plays a critical role in antiviral and antibacterial activity. During bacterial infection, promotes macrophage differentiation and facilitates inflammatory cytokine secretion (By similarity). Plays a role in the control of respiratory syncycial virus/RSV infection, reducing the ability of the virus to replicate (PubMed:32611756). Acts as a feedback regulator of IFN responses by negatively regulating IKBKB kinase activity through interaction with FKBP5 (By similarity).; Precursor of the histocompatibility antigen HA-28 in BALB.B mice. More generally, minor histocompatibility antigens refer to immunogenic peptide which, when complexed with MHC, can generate an immune response after recognition by specific T-cells. The peptides are derived from polymorphic intracellular proteins, which are cleaved by normal pathways of antigen processing. The binding of these peptides to MHC molecules and its expression on the cell surface can stimulate T-cell responses and thereby trigger graft rejection or graft-versus-host disease (GVHD). More specifically, HA-28 minor antigen is transcribed in the BALB.B donor but not in host C57BL/6 cells. HA-28 is presented to the donor BALB.B cell surface by Kb MHC. This complex HA-28/Kb MHC elicits cytotoxic T-cell response in C57BL/6 mice immunized with BALB.B spleen cells. It induces C57BL/6 mice cells recognition and lysis by CD8 T-cell from BALB.B mice.

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.