

Recombinant Mouse IFNL2 Protein

For Research Use Only

1. Basic Product Information

Catalog No.: REP52053

Size: 10ug, 100ug

Protein Name: Interferon lambda-2 (IFN-lambda-2) (Interleukin-28A) (IL-28A)

Synonym: Ifnl2, Il28a

UniProt ID: Q4VK74

UniProt Link: www.uniprot.org/uniprotkb/Q4VK74/entry

Species Source: Mouse

Expression System: HEK293T eukaryotic cell expression system Sequence

Length: 193 AA

Molecular Weight: 22 KD

Protein Tag: C-terminal His6

2. Amino Acid Sequence

MLLLLLPLLLAAVLTRTQADPVPRATRLPVEAKDCHIAQFKSLSPKELQAFKKAKDAIEKRLLEKDLRC
SSHLFPRAWDLKQLQVQERPKALQAEVALTLKVWENMTDSALATILGQPLHTLSHIHSQLQTCTQLQ
ATAEPRSPSRRLSRWLHRLQEAQSKETPGCLEASVTSNLFRLLTRDLKCVANGDQCV

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 lambda-2 (IFN-lambda-2) (Interleukin-28A) (IL-28A) 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: Cytokine with antiviral, antitumour and immunomodulatory activities. Plays a critical role in the antiviral host defense, predominantly in the epithelial tissues. Acts as a ligand for the heterodimeric class II cytokine receptor composed of IL10RB and IFNLR1, and receptor engagement leads to the activation of the JAK/STAT signaling pathway resulting in the expression of IFN-stimulated genes (ISG), which mediate the antiviral state. Has a restricted receptor distribution and therefore restricted targets: is primarily active in epithelial cells and this cell type-selective action is because of the epithelial cell-specific expression of its receptor IFNLR1. Seems not to be essential for early virus-activated host defense in vaginal infection, but plays an important role in Toll-like receptor (TLR)-induced antiviral defense. Plays a significant role in the antiviral immune defense in the intestinal epithelium. Exerts an immunomodulatory effect by up-regulating MHC class I antigen expression.

Subcellular Localization: Secreted .

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.