

# Recombinant Rat IL24 Protein

**For Research Use Only**

## 1. Basic Product Information

Catalog No.: REP52580

Size: 10ug, 100ug

Protein Name: Interleukin-24 (IL-24) (Cytokine-like protein Mob-5)

Synonym: IL24, Mob5

UniProt ID: Q9JI24

UniProt Link: [www.uniprot.org/uniprotkb/Q9JI24/entry](http://www.uniprot.org/uniprotkb/Q9JI24/entry)

Species Source: Rat

Expression System: HEK293T eukaryotic cell expression system Sequence

Length: 183 AA

Molecular Weight: 21 KD

Protein Tag: C-terminal His6

## 2. Amino Acid Sequence

MQTSLRQQILPGLSLILLVLNQVPELQGQEFRRFGPCQVTGVVLPELWEAFWTVKNTVKTQDELTSVR  
LLKPQVLQNVSDAESCYLEHSLKLFYLNVTFKNYHSHKIVKFKVLKSFSTLANNFLVIMSKLQPSKDNA  
MLPISDSARRRFLLYHRTFKQLDIEVALAKAFGEVDILLAWMQNFYQL

## 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 Interleukin-24 (IL-24) (Cytokine-like protein Mob-5) 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:** Multifunctional cytokine mainly produced by T-cells that plays a regulatory role in immune response, tissue homeostasis, host defense, and oncogenesis. Possesses antiviral functions and induces the type I interferon response during influenza infection. Signals through two receptor complexes IL20RA/IL20RB or IL20RB/IL22RA1. In turn, stimulates the JAK1-STAT3 and MAPK pathways and promotes the secretion of pro-inflammatory mediators including IL8 and MMP1 (By similarity). Intracellularly, maintains endoplasmic reticulum homeostasis by restricting the eIF2alpha-CHOP pathway-mediated stress signal (By similarity). In addition, acts as a quality control mechanism for the ubiquitin proteasome system by alerting the cell to proteasome dysfunction through activation of PKR/EIF2AK2 (By similarity).

**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.