

Recombinant Human IL24 Protein

For Research Use Only

1. Basic Product Information

Catalog No.: REP50515

Size: 10ug, 100ug

Protein Name: Interleukin-24 (IL-24) (Melanoma differentiation-associated gene 7 protein) (MDA-7) (Suppression of tumorigenicity 16 protein)

Synonym: IL24, MDA7, ST16

UniProt ID: Q13007

UniProt Link: www.uniprot.org/uniprotkb/Q13007/entry

Species Source: Human

Expression System: HEK293T eukaryotic cell expression system Sequence

Length: 206 AA

Molecular Weight: 24 KD

Protein Tag: C-terminal His6

2. Amino Acid Sequence

MNFQQRLQSLWTLARPFPCPLLATASQMQMVLVLPCLGFTLLWSQVSGAQQGEFHFGPCQVKGVV
PQKLWEAFWAVKDTMQAQDNITSARLLQQEVLQNVSDAESCYLEVHTLLEFYLKTVFKNYHNRTVEV
RTLKSFSTLANNFVLIVSQLQPSQENEMFSIRDSAHRRFLLFRRFAKQLDVEAALTALGEVDILLTW
MQKFYKL

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) (Melanoma differentiation-associated gene 7 protein) (MDA-7) (Suppression of tumorigenicity 16 protein) 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 (PubMed:25168428, PubMed:27687232). Possesses antiviral functions and induces the type I interferon response during influenza infection (PubMed:27687232). Signals through two receptor complexes IL20RA/IL20RB or IL20RB/IL22RA1 (PubMed:11706020, PubMed:30111632). In turn, stimulates the JAK1-STAT3 and MAPK pathways and promotes the secretion of pro-inflammatory mediators including IL8 and MMP1 (PubMed:25168428). Intracellularly, maintains endoplasmic reticulum homeostasis by restricting the eIF2 α -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.