

Recombinant Mouse IL19 Protein

For Research Use Only

1. Basic Product Information

Catalog No.: REP52076

Size: 10ug, 100ug

Protein Name: Interleukin-19 (IL-19)

Synonym: IL19

UniProt ID: Q8CJ70

UniProt Link: www.uniprot.org/uniprotkb/Q8CJ70/entry

Species Source: Mouse

Expression System: HEK293T eukaryotic cell expression system Sequence

Length: 176 AA

Molecular Weight: 20 KD

Protein Tag: C-terminal His6

2. Amino Acid Sequence

MKTQCASTWLLGMTLILCSVHIYSLRRCLISVDMRLIEKSFHEIKRAMQTKDTFKNVTILSLENLRSIKP
GDVCCMTNNLLTFYRDRVFQDHQERSLEVLRRISSIANSFLCVQKSLERCQVHRQCNCQSQEATNAT
RIIHDNYNQLEVSSAALKSLGELNILLAWIDRNLHLETPAA

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-19 (IL-19) 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 that functions as an anti-inflammatory and proangiogenic factor (PubMed:12370360, PubMed:27053520). Polarizes adaptive immunity to an anti-inflammatory phenotype through induction of T-helper 2 responses by both down-regulation of IFN-gamma and up-regulation of IL4 and IL5 (PubMed:15557163). Produced by osteocytes, stimulates granulopoiesis and neutrophil formation (PubMed:33684929). Exerts its biological effect through a receptor complex consisting of a heterodimer of IL20RA and IL20RB. In turn, activates the Janus kinase (JAK) and signal transducer and activator of transcription (STAT) pathway, and importantly, STAT3 (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.