

Recombinant Mouse IL17C Protein

For Research Use Only

1. Basic Product Information

Catalog No.: REP51788

Size: 10ug, 100ug

Protein Name: Interleukin-17C (Il-17c) (Cytokine CX2)

Synonym: Il17c

UniProt ID: Q8K4C5

UniProt Link: www.uniprot.org/uniprotkb/Q8K4C5/entry

Species Source: Mouse

Expression System: HEK293T eukaryotic cell expression system Sequence

Length: 194 AA

Molecular Weight: 22 KD

Protein Tag: C-terminal His6

2. Amino Acid Sequence

MSLLLLGWLPTGMTHQDPPSWGKPRSHRTLRCYSAEELSHGQAPPHLLTRSARWEQALPVALVAS
LEATGHRHQHEGPLAGTQCPVLRPEEVLEADTHERSISPWRYRIDTDENRYQPQLAVAECCLCRGCIN
AKTGRETAALNSVQLQLSLLVLRQPCSRDGTADPTPGSFAFHTEFIRVPVGCTCVLPSTQ

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-17C (IL-17c) (Cytokine CX2) 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 plays a crucial role in innate immunity of the epithelium, including to intestinal bacterial pathogens, in an autocrine manner. Stimulates the production of antibacterial peptides and pro-inflammatory molecules for host defense by signaling through the NFκB and MAPK pathways. Acts synergically with IL22, TNF and IL1β in inducing antibacterial peptides. May have protective function by maintaining epithelial homeostasis after an inflammatory challenge, such as that caused in the intestine by dextran sulfate sodium in a colitis model. May also promote an inflammatory phenotype, such as skin in a psoriasis model. Enhanced IL17C/IL17RE signaling may also lead to greater susceptibility to autoimmune diseases, such as autoimmune encephalitis.

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.