

Recombinant Human IL17C Protein

For Research Use Only

1. Basic Product Information

Catalog No.: REP50496

Size: 10ug, 100ug

Protein Name: Interleukin-17C (IL-17C) (Cytokine CX2)

Synonym: IL17C, UNQ561/PRO1122

UniProt ID: Q9P0M4

UniProt Link: www.uniprot.org/uniprotkb/Q9P0M4/entry

Species Source: Human

Expression System: HEK293T eukaryotic cell expression system Sequence

Length: 197 AA

Molecular Weight: 22 KD

Protein Tag: C-terminal His6

2. Amino Acid Sequence

MTLLPGLLFLTWLHTCLAHHDP SLRGHPHSHGTPHCYSAEELPLGQAPPHLLARGAKWGGQALPVAL
VSSLEAASHRGRHERPSATTQCPVLRPEEVLEADTHQRSISPWRYRVDTDED RYPQKLAF AECLCR
GCIDARTGRETAALNSVRLLQSLLVLR RRPCSRDGSGLPTPGAFAFHTEFIHVPVGCTCVLPRSV

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 NF-kappa-B and MAPK pathways. Acts synergically with IL22 in inducing the expression of antibacterial peptides, including S100A8, S100A9, REG3A and REG3G. Synergy is also observed with TNF and IL1B in inducing DEFB2 from keratinocytes. Depending on the type of insult, may have both protective and pathogenic properties, either by maintaining epithelial homeostasis after an inflammatory challenge or by promoting inflammatory phenotype. Enhanced IL17C/IL17RE signaling may also lead to greater susceptibility to autoimmune diseases.

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.