

Recombinant Mouse CCL19 Protein

For Research Use Only

1. Basic Product Information

Catalog No.: REP51185

Size: 10ug, 100ug

Protein Name: C-C motif chemokine 19 (Epstein-Barr virus-induced molecule 1 ligand chemokine) (EBI1 ligand chemokine) (ELC) (Small-inducible cytokine A19)

Synonym: Ccl19, Elc, Scya19

UniProt ID: O70460

UniProt Link: www.uniprot.org/uniprotkb/O70460/entry

Species Source: Mouse

Expression System: HEK293T eukaryotic cell expression system Sequence

Length: 108 AA

Molecular Weight: 12 KD

Protein Tag: C-terminal His6

2. Amino Acid Sequence

MAPRVTPLLAFSLLVLWTFPAPTLGGANDAEDCCLSVTQRPIPGNIVKAFFRYLLNEDGCRVPAVVFTT
LRGYQLCAPPDQPWVDRIIRRLKKSSAKNKGNSTRRSPVS

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 C-C motif chemokine 19 (Epstein-Barr virus-induced molecule 1 ligand chemokine) (EBI1 ligand chemokine) (ELC) (Small-inducible cytokine A19) 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: Strongly chemotactic for naive (L-selectin^{hi}) CD4 T-cells and for CD8 T-cells and weakly attractive for resting B-cells and memory (L-selectin^{lo}) CD4 T-cells. May play a role in promoting encounters between recirculating T-cells and dendritic cells and in the migration of activated B-cells into the T-zone of secondary lymphoid tissues. Binds to chemokine receptor CCR7. Binds to atypical chemokine receptor ACKR4 and mediates the recruitment of beta-arrestin (ARRB1/2) to ACKR4.

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.