

Recombinant Mouse CC21A Protein

For Research Use Only

1. Basic Product Information

Catalog No.: REP51509

Size: 10ug, 100ug

Protein Name: C-C motif chemokine 21a (6Ckine) (Beta-chemokine exodus-2) (Small-inducible cytokine A21a) (Thymus-derived chemotactic agent 4) (TCA4)

Synonym: Ccl21a, Scya21, Scya21a

UniProt ID: P84444

UniProt Link: www.uniprot.org/uniprotkb/P84444/entry

Species Source: Mouse

Expression System: HEK293T eukaryotic cell expression system Sequence

Length: 133 AA

Molecular Weight: 15 KD

Protein Tag: C-terminal His6

2. Amino Acid Sequence

MAQMMTSLLSLVLALCIPWTQGSDGGGQDCCLKYSQKKIPYSIVRGYRKQEPSLGCPAILFSPRK
HSKPELCANPEEGWVQNLMRRLDQPPAPGKQSPGCRKNRGTSKSGKKGKSGKGCKRTEQTQPS
RG

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 21a (6Ckine) (Beta-chemokine exodus-2) (Small-inducible cytokine A21a) (Thymus-derived chemotactic agent 4) (TCA4) 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: Binds to chemokine receptors CCR7 and CXCR3. Also binds to G protein-coupled receptor GPR174 (PubMed:31875850). Inhibits hemopoiesis and stimulates chemotaxis. Chemotactic in vitro for thymocytes and activated T-cells, but not for B-cells, macrophages, or neutrophils. Potent mesangial cell chemoattractant. Shows preferential activity towards naive T-cells. May play a role in mediating homing of lymphocytes to secondary lymphoid organs.

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.