

Recombinant Human CCR8 Protein

For Research Use Only

1. Basic Product Information

Catalog No.: REP50147

Size: 10ug, 100ug

Protein Name: C-C chemokine receptor type 8 (C-C CKR-8) (CC-CKR-8) (CCR-8) (CC chemokine receptor CHEMR1) (CMKBRL2) (Chemokine receptor-like 1) (CKR-L1) (GPR-CY6) (GPRCY6) (TER1) (CD antigen CDw198)

Synonym: CCR8, CKRL1, CMKBR8, CMKBRL2

UniProt ID: P51685

UniProt Link: www.uniprot.org/uniprotkb/P51685/entry

Species Source: Human

Expression System: HEK293T eukaryotic cell expression system Sequence

Length: 355 AA

Molecular Weight: 41 KD

Protein Tag: C-terminal His6

2. Amino Acid Sequence

MDYTLDSLVTTVTDYYPDIFSSPCDAELIQTNGKLLAVFYCLLFVFSLLGNSLVILVLVCKKLRSIT
DVYLLNLALSDLLFVFSFPFQTYLLDQWVFGTVMCKVVSGFYIIGFYSSMFFITLMSVDRLAVVHA
VYALKVRTIRMGTTLCLAVWLTAIMATIPLLVFYQVASEDGVLCYSFYNNQQTLLKWKIFTNFKMNLGL
LIPFTIFMFCYIKILHQLKRCQNHNTKAIKRLVLIVVIASLLFWVPFNVVLFTSLHSMHILDGCSISQQLT
YATHVTEIISFTHCCVNPVIYAFVGEKFKKHLSEIFQKSCSQIFNYLGRQMPRESCEKSSSCQQHSSR
SSSVDYIL

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 chemokine receptor type 8 (C-C CKR-8) (CC-CKR-8) (CCR-8) (CC chemokine receptor CHEMR1) (CMKBRL2) (Chemokine receptor-like 1) (CKR-L1) (GPR-CY6) (GPCY6) (TER1) (CD antigen CDw198) 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: G protein-coupled receptor that can bind a variety of chemokines, such as CCL1, CCL8, CCL16, CCL18 (PubMed:23999500, PubMed:35041514). Regulates monocyte and eosinophil chemotaxis. Undergoes internalization upon CCL18 binding, leading to induced migration and calcium flux of highly polarized Th2 cells (PubMed:23999500). In microglial cells, promotes phagocytosis with CCL18 through NF-kappa-B and Src signaling pathways (PubMed:35041514). Stimulation of the CCL1-CCR8 signaling axis protects the gut from acute intestinal damage (By similarity).; (Microbial infection) Acts as a coreceptor for HIV-1 and HIV-2 viruses.; (Microbial infection) Acts as a receptor for Kaposi virus protein vCCL1/K6 and thereby inhibits apoptosis in the targeted cells.

Subcellular Localization: Cell membrane ; Multi-pass membrane protein.

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.