

Recombinant Mouse CXCR1 Protein

For Research Use Only

1. Basic Product Information

Catalog No.: REP52071

Size: 10ug, 100ug

Protein Name: C-X-C chemokine receptor type 1 (CXC-R1) (CXCR-1) (High affinity interleukin-8 receptor A) (IL-8R A) (CD antigen CD181)

Synonym: Cxcr1, Il8ra

UniProt ID: Q810W6

UniProt Link: www.uniprot.org/uniprotkb/Q810W6/entry

Species Source: Mouse

Expression System: HEK293T eukaryotic cell expression system Sequence

Length: 351 AA

Molecular Weight: 40 KD

Protein Tag: C-terminal His6

2. Amino Acid Sequence

MAEAEYFIWTNPEGDFEKEFGNITGMLPTGDYFIPCKRVPITNRQALVVFYALVSLLSLLGNSLVMLVI
LYRRRTRSVMDVYVLNLAIDLLFSLTLPFLAVSKLKGWIFGTPLCKMVSLLEKFNFSGILLACISVD
RYLAIVHATRTLARKRYLVKFVCGIWLGLSLILSLPFAIFRQAYKPFRSGTVCYEVLGEATTDFRMTLR
GLSHIFGFLPLLTMLVCYGLTLRMLFKTHMRQKHRAMGVIFAVVLVFLCCLPYNLVLLSDTLLGAHL
IEDTCERRNDIDQALYITEILGFSHSCLNPIIYAFVGQNFRHEFLKILANHGLVRKEVLTHRRVAFHTSL
TAIY

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-X-C chemokine receptor type 1 (CXC-R1) (CXCR-1) (High affinity interleukin-8 receptor A) (IL-8R A) (CD antigen CD181) 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: Receptor to interleukin-8, which is a powerful neutrophils chemotactic factor. Binding of IL-8 to the receptor causes activation of neutrophils. This response is mediated via a G protein that activates a phosphatidylinositol-calcium second messenger system.

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.