

Recombinant Rat CCL3 Protein

For Research Use Only

1. Basic Product Information

Catalog No.: REP52379

Size: 10ug, 100ug

Protein Name: C-C motif chemokine 3 (Macrophage inflammatory protein 1-alpha) (MIP-1-alpha) (Small-inducible cytokine A3)

Synonym: Ccl3, Mip1a, Scya3

UniProt ID: P50229

UniProt Link: www.uniprot.org/uniprotkb/P50229/entry

Species Source: Rat

Expression System: HEK293T eukaryotic cell expression system Sequence

Length: 92 AA

Molecular Weight: 10 KD

Protein Tag: C-terminal His6

2. Amino Acid Sequence

MKVSTAALAVLLCTMALWNEVFSAPYGADTPTACCF SYGRQIPRKFIADYFETSSLCSQPGVIFLTR
NRQICADPKETWVQEYITELELNA

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 3 (Macrophage inflammatory protein 1-alpha) (MIP-1-alpha) (Small-inducible cytokine A3) 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: Monokine with inflammatory and chemokinetic properties. Binds to CCR1, CCR4 and CCR5. One of the major HIV-suppressive factors produced by CD8+ T-cells. Recombinant MIP-1-alpha induces a dose-dependent inhibition of different strains of HIV-1, HIV-2, and simian immunodeficiency virus (SIV).

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.