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## **Recombinant Human CCL5/RANTES Protein**

Catalog No.: RP01611LQ Recombinant

### **Sequence Information**

Species Gene ID Swiss Prot Human 6352 P13501

Tags

C-His

**Synonyms** 

D17S136E; eoCP; RANTES; SCYA5; SISdelta: SISd: TCP228:CCL5

#### **Product Information**

**Source** Purification Pichia ≥ 95 % as

determined by SDS-

PAGE.

Calculated MW Observed MW

8.69 kDa 13-15 kDa

**Endotoxin** 

< 0.1 EU/ $\mu$ g of the protein by LAL method.

**Formulation** 

Supplied as a 0.22  $\mu m$  filtered solution in PBS, pH 7.4.

Reconstitution

#### **Background**

Chemokines form a superfamily of secreted proteins involved in immunoregulatory and inflammatory processes. The superfamily is divided into four subfamilies based on the arrangement of the N-terminal cysteine residues of the mature peptide. This chemokine, a member of the CC subfamily, functions as a chemoattractant for blood monocytes, memory T helper cells and eosinophils. It causes the release of histamine from basophils and activates eosinophils. This cytokine is one of the major HIV-suppressive factors produced by CD8+ cells. It functions as one of the natural ligands for the chemokine receptor chemokine (C-C motif) receptor 5 (CCR5), and it suppresses in vitro replication of the R5 strains of HIV-1, which use CCR5 as a coreceptor. Alternative splicing results in multiple transcript variants that encode different isoforms.

#### **Basic Information**

#### **Description**

Recombinant Human CCL5/RANTES Protein is produced by *Pichia* expression system. The target protein is expressed with sequence (Ser24-Ser91) of human CCL5/RANTES (Accession  $\#NP_002976.2$ ) fused with a  $6\times His$  tag at the C-terminus.

#### **Bio-Activity**

Measured by its binding ability in a functional ELISA. Immobilized Human CCL5 (Catalog: RP01611LQ) at 2  $\mu$ g/mL (100  $\mu$ L/well) can bind Mouse CXCL4(Catalog: RP03170) with a linear range of 41.2-815 ng/mL.

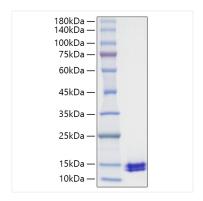
#### Storage

Store at -70°C. This product is stable at  $\leq$  -70°C for up to 1 year from the date of receipt. For optimal storage, aliquot into smaller quantities after centrifugation and store at recommended temperature. Avoid repeated freeze-thaw cycles. Avoid repeated freeze/thaw cycles.

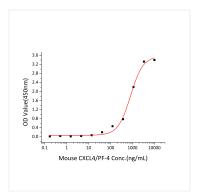
#### **Contact**

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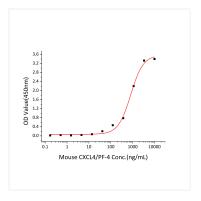
#### **Validation Data**



Recombinant Human CCL5/RANTES Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.



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Immobilized Human CCL5 (Catalog: RP01611LQ) at 2  $\mu g/mL$  (100  $\mu L/well)$  can bind Mouse CXCL4(Catalog: RP03170) with a linear range of 41.2-815 ng/mL.