

## Active Recombinant Rhesus CXCL12 Protein, Fc-tagged

**Cat. No.** CXCL12-1166R    **Lot. No.** (See product label)

### SPECIFICATION

|                             |                                                                                                                         |
|-----------------------------|-------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b>     | Recombinant rhesus CXCL12 (NP_001028106.1) (Met 1-Lys 89) was fused with the Fc region of human IgG1 at the C-terminus. |
| <b>Species</b>              | Rhesus macaque                                                                                                          |
| <b>Source</b>               | HEK293                                                                                                                  |
| <b>ProteinLength</b>        | 1-89 a.a.                                                                                                               |
| <b>Predicted N Terminal</b> | Lys 23                                                                                                                  |
| <b>Form</b>                 | Lyophilized from sterile PBS, pH 7.4, 5%~8% trehalose and mannitol.                                                     |
| <b>Bio-activity</b>         | Measured by its ability to bind biotinylated recombinant human DPPIV in a functional ELISA.                             |
| <b>Molecular Mass</b>       | The recombinant rhesus CXCL12 consists of 309 amino acids and has a calculated molecular mass of 34.8 kDa.              |
| <b>Endotoxin</b>            | < 1.0 EU per µg of the protein as determined by the LAL method.                                                         |
| <b>Purity</b>               | >95 % as determined by SDS-PAGE.                                                                                        |
| <b>Stability</b>            | Samples are stable for up to twelve months from date of receipt at -70°C.                                               |

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|                            |                                                                                                                                                                                                                                      |
|----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Storage</b>             | Store it under sterile conditions at -20°C~-70°C. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.                                                                            |
| <b>Reconstitution</b>      | It is recommended that sterile water be added to the vial to prepare a stock solution of 0.25 ug/ul. Centrifuge the vial at 4°C before opening to recover the entire contents.                                                       |
| <b>GENE INFORMATION</b>    |                                                                                                                                                                                                                                      |
| <b>Gene Name</b>           | CXCL12 chemokine (C-X-C motif) ligand 12 [ <i>Macaca mulatta</i> ]                                                                                                                                                                   |
| <b>Official Symbol</b>     | CXCL12                                                                                                                                                                                                                               |
| <b>Synonyms</b>            | chemokine (C-X-C motif) ligand 12 (stromal cell-derived factor 1); chemokine CXCL12/SDF-1ALPHA; stromal cell-derived factor 1 isoform alpha; stromal cell-derived factor 1 isoform beta; stromal cell-derived factor 1 isoform gamma |
| <b>Gene ID</b>             | 574334                                                                                                                                                                                                                               |
| <b>mRNA Refseq</b>         | NM_001032934                                                                                                                                                                                                                         |
| <b>Protein Refseq</b>      | NP_001028106                                                                                                                                                                                                                         |
| <b>MIM</b>                 |                                                                                                                                                                                                                                      |
| <b>UniProt ID</b>          |                                                                                                                                                                                                                                      |
| <b>Chromosome Location</b> | chromosome: 9                                                                                                                                                                                                                        |
| <b>Pathway</b>             | Axon guidance, organism-specific biosystem; Chemokine signaling pathway, conserved biosystem; Intestinal immune network for IgA production, conserved biosystem                                                                      |

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