

# Recombinant Active Human CXCL12 Protein, His-tagged(C-ter)

**Cat. No.** CXCL12-54H    **Lot. No.** (See product label)

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|-------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant Active Human CXCL12 Protein with His tag (C-ter) was expressed in E. coli.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Source</b>           | E.coli                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Description</b>      | <p>This antimicrobial gene encodes a stromal cell-derived alpha chemokine member of the intercrine family. The encoded protein functions as the ligand for the G-protein coupled receptor, chemokine (C-X-C motif) receptor 4, and plays a role in many diverse cellular functions, including embryogenesis, immune surveillance, inflammation response, tissue homeostasis, and tumor growth and metastasis. Mutations in this gene are associated with resistance to human immunodeficiency virus type 1 infections. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Sep 2014]</p> |
| <b>Form</b>             | Powder                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Bio-activity</b>     | Determined by its ability to chemoattract BaF3 mouse pro-B cells transfected with human CXCR4. The ED50 for this effect is < 0.5 ng/mL.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>AA Sequence</b>      | MVSLSYRCPCRFFESHVARANVKHLKILNTPNCALQIVARLKNNNRQVCIDPKLKWIQEYLEKALN                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Endotoxin</b>        | Endotoxin level is less than 0.1 EU/μg of the protein, as determined by the LAL test.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |

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|                       |                                                                                                                                                                                                                                                             |
|-----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Purity</b>         | > 98% (by SDS-PAGE)                                                                                                                                                                                                                                         |
| <b>Applications</b>   | SDS-PAGE                                                                                                                                                                                                                                                    |
| <b>Notes</b>          | For laboratory research only, not for drug, diagnostic or other use.                                                                                                                                                                                        |
| <b>Storage</b>        | Lyophilized protein should be stored at -20°C. After reconstitution, aliquot and store at -20°C or -80°C for up to one month. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. |
| <b>Storage Buffer</b> | 20 mM Sodium citrate (pH 4.5) and 0.1 M NaCl.                                                                                                                                                                                                               |
| <b>Reconstitution</b> | It is recommended to reconstitute the lyophilized protein in sterile water to a concentration not less than 100 µg/mL and incubate the stock solution for at least 20 min at room temperature to make sure the protein is dissolved completely.             |

## GENE INFORMATION

|                        |                                                                                                                                                                                                                                                                                         |
|------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>       | CXCL12 chemokine (C-X-C motif) ligand 12 [ Homo sapiens ]                                                                                                                                                                                                                               |
| <b>Official Symbol</b> | CXCL12                                                                                                                                                                                                                                                                                  |
| <b>Synonyms</b>        | CXCL12; chemokine (C-X-C motif) ligand 12; SDF1, SDF1A, SDF1B, stromal cell derived factor 1; stromal cell-derived factor 1; PBSF; SCYB12; SDF 1a; SDF 1b; TLSF a; TLSF b; TPAR1; intercrine reduced in hepatomas; pre-B cell growth-stimulating factor; IRH; SDF1; TLSF; SDF1A; SDF1B; |
| <b>Gene ID</b>         | 6387                                                                                                                                                                                                                                                                                    |
| <b>mRNA Refseq</b>     | NM_000609                                                                                                                                                                                                                                                                               |

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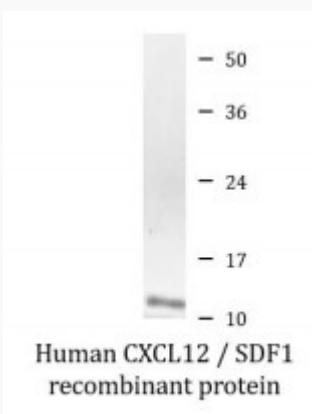
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**Protein Refseq** NP\_000600

**MIM** 600835

**UniProt ID** P48061

**SDS-PAGE**



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