

## Recombinant Human Chemokine (C-X-C motif) Ligand 12, HlgG1 Fc-tagged

**Cat. No.** CXCL12-552H    **Lot. No.** (See product label)

### SPECIFICATION

|                             |                                                                                                                                                          |
|-----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b>     | Recombinant human CXCL12 isoform alpha (P48061-2) (Lys 22-Lys 89) was expressed, with a polyhistidine tag at the N-terminus.                             |
| <b>Species</b>              | Human                                                                                                                                                    |
| <b>Source</b>               | CHO                                                                                                                                                      |
| <b>ProteinLength</b>        | 22-89 a.a.                                                                                                                                               |
| <b>Predicted N Terminal</b> | Met                                                                                                                                                      |
| <b>Form</b>                 | Lyophilized from sterile PBS, pH 7.4, 5%~8% trehalose and mannitol.                                                                                      |
| <b>Molecular Mass</b>       | TherecombinanthumanCXCL12consistsof84aminoacidsandpredictsamolecularmassof 1 0KDa.Itmigratesasanapproximately12KDabandinSDS-PAGEunderreducingconditions. |
| <b>Endotoxin</b>            | < 1.0 EU per µg of the protein as determined by the LAL method.                                                                                          |
| <b>Purity</b>               | >90 % as determined by SDS-PAGE.                                                                                                                         |
| <b>Stability</b>            | Samples are stable for up to twelve months from date of receipt at -70°C.                                                                                |
| <b>Storage</b>              | Store it under sterile conditions at -20°C~-70°C. It is recommended that the protein be                                                                  |

 Tel: 1-631-559-9269    1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)     Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

#### Reconstitution

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.

## GENE INFORMATION

**Gene Name** CXCL12 chemokine (C-X-C motif) ligand 12 [ Homo sapiens ]

**Official Symbol** CXCL12

#### Synonyms

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;

**Gene ID** 6387

**mRNA Refseq** NM\_000609

**Protein Refseq** NP\_000600

**MIM** 600835

**UniProt ID** P48061

**Chromosome Location** 10q11.1

#### Pathway

Axon guidance, organism-specific biosystem; Axon guidance, conserved biosystem; CXCR4-mediated signaling events, organism-specific biosystem; Chemokine

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receptors bind chemokines, organism-specific biosystem; Chemokine signaling pathway, organism-specific biosystem; Chemokine signaling pathway, conserved biosystem; Class A/1 (Rhodopsin-like receptors), organism-specific biosystem;

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