

# Active Recombinant Human Chemokine (C-X-C motif) Ligand 12, MlgG2a Fc-tagged

Cat. No. CXCL12-551H Lot. No. (See product label)

## SPECIFICATION

### Product Overview

The extracellular domain of human SDF-1 $\gamma$ (NP\_001029058.1) (Gly21-Asn119) is fused to the N-terminus of the Fc region of mouse IgG2a was expressed in CHO cell.

### Species

Human

### Source

CHO

### Description

This 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.

### Form

Lyophilized from 0.2 $\mu$ m-filtered solution in PBS.

### Bio-activity

Measured by its ability to chemoattract BaF3 mouse pro B cells.

### Molecular Mass

38KDa (monomer)

### AA Sequence

Gly21-Asn119

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<b>Endotoxin</b>	<0.06 eu/μg="" as="" determined="" by="" lal="" test="">
<b>Purity</b>	>98%, by SDS-PAGE under reducing conditions.
<b>Stability</b>	Stable for at least 1 year after receipt when stored at -20°C. Working aliquots are stable for up to 3 months when stored at -20°C.
<b>Reconstitution</b>	Reconstitute at 100μg/ml in sterile PBS.
<b>Warning</b>	Avoid freeze/thaw cycles.

## 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
<b>Protein Refseq</b>	NP_000600
<b>MIM</b>	600835
<b>UniProt ID</b>	P48061

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<b>Chromosome Location</b>	10q11.1
<b>Pathway</b>	Axon guidance, organism-specific biosystem; Axon guidance, conserved biosystem; CXCR4-mediated signaling events, organism-specific biosystem; Chemokine 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;
<b>Function</b>	CXCR chemokine receptor binding; chemokine activity; growth factor activity; receptor binding;

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