

# Active Recombinant Human Chemokine (C-X-C motif) Ligand 12, HIgG1 Fc-tagged, mutant

Cat. No. CXCL12-550H Lot. No. (See product label)

## SPECIFICATION

<b>Product Overview</b>	The extracellular domain of human SDF-1 $\gamma$ (NP_001029058.1) (Gly21-Asn119) is fused to the N-terminus of the Fc region of a mutant human IgG1 was expressed in CHO cell.
<b>Species</b>	Human
<b>Source</b>	CHO
<b>Description</b>	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.
<b>Form</b>	Lyophilized from 0.2 $\mu$ m-filtered solution in PBS.
<b>Bio-activity</b>	Measured by its ability to chemoattract BaF3 mouse pro B cells.
<b>Molecular Mass</b>	38KDa (monomer)
<b>AA Sequence</b>	Gly21-Asn119

 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

<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

 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

<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;

 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