

Recombinant Human Stromal Cell-Dreived Factor 1, His-tagged

Cat. No. CXCL12-64H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human SDF-1, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography, 10.8 kDa (93aa)
Species	Human
Source	E.coli
Description	SDF-1 is small cytokine belonging to the chemokine family that is officially designated Chemokine (C-X-C motif) ligand 12 (CXCL12). SDF-1 is strongly chemotactic for lymphocytes and works by its receptor CXCR4. The SDF-1+CXCR4 complex plays a significant role in the creation of metastases of neoplasms and as a response to cytostatic treatment. Identification of this complex may be a useful prognostic factor in the therapy of many types of carcinoma.
Sequences of amino acids	MGSSHHHHHH SSSLVPRGSH MKPVLSYRC PCRFFESHVA RANVKHLKIL NTPNCALQIV ARLKNNNRQV CIDPKLKIWIQ EYLEKALNKR FKM
Form	Liquid. In 20 mM Tris-HCl buffer (pH 8.0) containing 10% glycerol
Purity	> 90% by SDS - PAGE
Concentration	0.5 mg/ml (determined by Bradford assay)
Endotoxin Level	< 1.0 EU per 1 µg of protein (determined by LAL method)

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Storage Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.

GENE INFORMATION

Gene Name [CXCL12](#)

Synonyms PBSF; SCYB12; SDF-1a; SDF-1b; SDF1; SDF-1; SDF1A; SDF1B; TLSF; TLSF-a; TLSF-b; TPAR1; C-X-C motif chemokine 12; Pre-B cell growth-stimulating factor; Stromal cell-derived factor 1 precursor; chemokine (C-X-C motif) ligand 12 (stromal cell-derived factor 1); stromal cell-derived factor 1; stromal cell-derived factor 1 delta; stromal cell-derived factor 1 gamma; stromal cell-derived factor 1a; CXCL12.

Gene ID [6387](#)

mRNA Refseq [NM_199168](#)

Protein Refseq [NP_954637](#)

MIM [600835](#)

Uniprot ID [P48061](#)

Chromosome Location 10q11.1

Pathway Axon guidance, Cytokine-cytokine receptor interaction, Leukocyte transendothelial migration

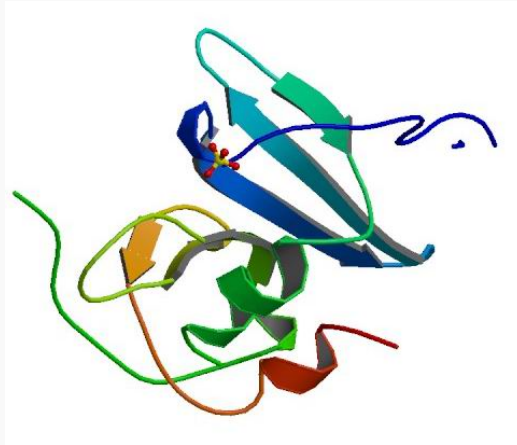
Function chemokine activity, chemokine activity, growth factor activity, signal transducer activity

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