

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 SSGLVPRGSH MKPVSLSYRC PCRFFESHVA RANVKHLKIL NTPNCALQIV ARLKNNNRQV CIDPKLKWIQ 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

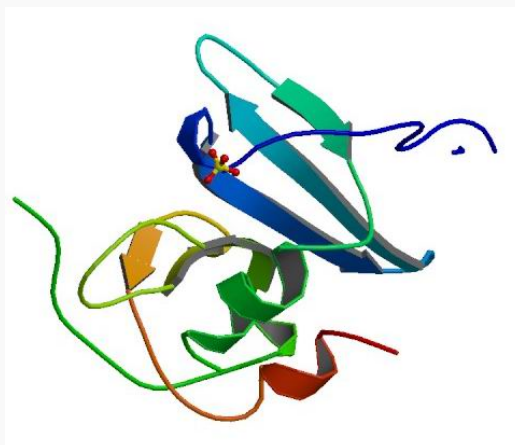
chemokine activity, chemokine activity, growth factor activity, signal transducer activity

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