

Stromal Cell-Dreived Factor 1 α

Human, Recombinant (rHuSDF-1 α)

Expressed in *E. coli*

Cat. No. CRP0858

Lot. No. (See product label)

PRODUCT INFORMATION

Description: SDF-1 α , a member of the chemokine α subfamily, chemottracts with T-lymphocytes, monocytes, pro- and pre-B cells, but not neutrophils. It is highly conserved between species with one amino acid substitution between human and mouse. Recombinant stromal cell-dreived factor 1 α is expressed in *E. coli*.

M. W. : 8,000 Da

Recombinant: Expressed in *E. coli*

Purity: >95% as determined by HPLC.

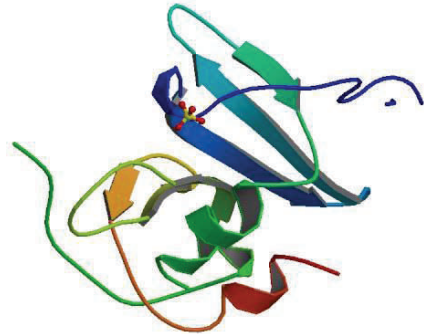
Activity: Measured by its ability to chemoattract cultured human macrovascular endothelial cells.

Storage buffer: Liquid. In PBS Buffer.

REFERENCES

1. De La Luz Sierra et al. Differential processing of stromal-derived factor-1alpha and beta explains functional diversity. *Blood*. 2004; 103:2452-2459.
2. Bleul et al. A highly efficacious lymphocyte chemoattractant, stromal cell-derived factor 1 (SDF-1). *J. Exp. Med.* 1996; 184: 1101-1109.
3. Ara et al. Impaired colonization of the gonads by primordial germ cells in mice lacking a chemokine, stromal cell-derived factor-1 (SDF-1). *Proc. Nat. Acad. Sci.* 2003; 100: 5319-5323.
4. Askari et al. Effect of stromal-cell-derived factor 1 on stem-cell homing and tissue regeneration in ischaemic cardiomyopathy. *Lancet*. 2003; 362: 697-703.

FOR RESEARCH USE ONLY



[PDB](#) rendering based on 1a15.

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

mRNA Refseq: [NM_199168.2](#)

Protein Refseq: [NP_954637.1](#)

MIM: [600835](#)

GeneID: [6387](#)

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

Process: G-protein coupled receptor protein signaling pathway, blood circulation, cell adhesion, cellular calcium ion homeostasis, chemotaxis, immune response, response to virus, signal transduction

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