

Recombinant Human CXCL12, His-tagged

Cat. No. CXCL12-11718H Lot. No. (See product label)

SPECIFICATION

Product Overview Recombinant Human CXCL12 protein, fused to His-tag, was expressed in E.coli and purified by Ni-sepharose.

Species Human

Source E.coli

ProteinLength 19-89a.a.

Description This gene encodes a stromal cell-derived alpha chemokine member of the intercrine family. This gene product and its receptor CXCR4 can activate lymphocytes and have been implicated in the metastasis of some cancers such as breast cancer. 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.

Source E.coli

Species Human

Tag His

Storage The protein is stored in PBS buffer at -20°C. Avoid repeated freezing and thawing cycles.

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Storage Buffer 1M PBS (58mM Na₂HPO₄, 17mM NaH₂PO₄, 68mM NaCl, pH8.) added with 300mM Imidazole and 0.7% Sarcosyl, 15% glycerol.

GENE INFORMATION

Gene Name CXCL12 chemokine (C-X-C motif) ligand 12 [Homo sapiens]

Official Symbol CXCL12

Synonyms 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;

Gene ID 6387

mRNA Refseq NM_000609

Protein Refseq NP_000600

MIM 600835

UniProt ID P48061

Chromosome Location 10q11.1

Pathway 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

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biosystem; Class A/1 (Rhodopsin-like receptors), organism-specific biosystem;

Function

CXCR chemokine receptor binding; chemokine activity; growth factor activity; receptor binding;

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