

Recombinant Human chemokine (X-C motif) ligand 12 Protein, Tag Free

Cat. No. CXCL12-242H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human CXCL12/SDF-1 protein (P48061-2) (Lys 22-Lys 89) without tag was expressed in HEK293.
Species	Human
Source	HEK293
ProteinLength	22-89aa
Description	The stromal cell derived factor 1 (SDF1, CXCL12) is a small, pro-inflammatory chemoattractant cytokine that regulates leukocyte trafficking through interactions with its cognate 7-transmembrane G protein-coupled receptors. The SDF1 receptor, CXCR4, also serves as a coreceptor for the entry of human immunodeficiency virus into target cells. SDF1 may regulate homing and maintenance of CXCR4-expressing stem or progenitor cells, including embryonic and many somatic stem cells. Many cancer cells express CXCR4, suggesting that SDF1 plays a role in cancer metastasis. Alternative splicing and differential processing during maturation produce a pair of SDF1 isoforms (SDF1 α and SDF1 β) that have different properties and biological activities. Additional isoforms of SDF1 have been reported.
Tag	Non
Molecular Mass	8.3 kDa

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Endotoxin	Less than 1.0 EU/μg by the LAL method.
Purity	>95% as determined by SDS-PAGE.
Storage	Please avoid repeated freeze-thaw cycles. Samples are stable for up to twelve months from date of receipt at -20 to -80 centigrade. It is recommended that aliquot the reconstituted solution to minimize freeze-thaw cycles.
Storage Buffer	Lyophilized from a 0.2 μm filtered solution of PBS, pH7.4, 5% Trehalose, 5% mannitol.
Reconstitution	Reconstitute at 250 μg/mL in sterile water.

GENE INFORMATION

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

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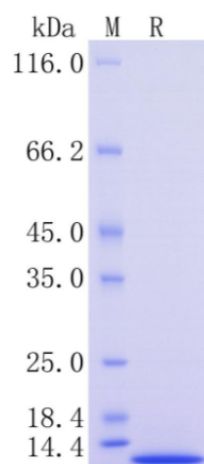
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UniProt ID

P48061

**Protein on SDS-
PAGE under
reducing (R)
condition.**



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