

## Product datasheet for **TP723843**

### **SDF1 (CXCL12) (NM\_000609) Human Recombinant Protein**

#### **Product data:**

<b>Product Type:</b>	Recombinant Proteins
<b>Description:</b>	Purified recombinant protein of Human chemokine (C-X-C motif) ligand 12 (CXCL12 / SDF-1beta), transcript variant 2
<b>Species:</b>	Human
<b>Expression Host:</b>	E. coli
<b>Expression cDNA Clone or AA Sequence:</b>	Human CXCL12, the region of Ser19-Met93, from gene Accession# NM_000609
<b>Tag:</b>	Tag Free
<b>Predicted MW:</b>	8.8 kDa
<b>Concentration:</b>	lot specific
<b>Purity:</b>	>95%, as determined by Coomassie stained SDS-PAGE.
<b>Buffer:</b>	1 x PBS
<b>Bioactivity:</b>	Bioactivity was measured by its property to chemoattract human T cells in a dose dependent manner.
<b>Endotoxin:</b>	Less than 0.01 ng per µg protein as determined by the LAL method
<b>Storage:</b>	Store at -80°C.
<b>Stability:</b>	Unopened vial can be stored between 2°C and 8°C for up to 2 weeks, at -20°C for up to 6 months, or at -70°C or below until the expiration date. Aliquots can be stored between 2°C and 8°C for up to one week and stored at -20°C or colder for up to 3 months. Avoid repeated freeze/thaw cycles.
<b>RefSeq:</b>	<u><a href="#">NP_000600</a></u>
<b>Locus ID:</b>	6387
<b>UniProt ID:</b>	<u><a href="#">P48061</a></u>
<b>RefSeq Size:</b>	3560
<b>Cytogenetics:</b>	10q11.21
<b>RefSeq ORF:</b>	279
<b>Synonyms:</b>	IRH; PBSF; SCYB12; SDF1; TLSF; TPAR1



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**Summary:** This antimicrobial gene encodes a stromal cell-derived alpha chemokine member of the intercrine family. The encoded protein functions as the ligand for the G-protein coupled receptor, chemokine (C-X-C motif) receptor 4, and plays a role in many diverse cellular functions, including embryogenesis, immune surveillance, inflammation response, tissue homeostasis, and tumor growth and metastasis. 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. [provided by RefSeq, Sep 2014]

**Protein Families:** Druggable Genome, ES Cell Differentiation/IPS, Secreted Protein

**Protein Pathways:** Axon guidance, Chemokine signaling pathway, Cytokine-cytokine receptor interaction, Leukocyte transendothelial migration

**Product images:**

