

Product datasheet for **TP723784**

SDF1 (CXCL12) (NM_199168) Human Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Purified recombinant protein of Human chemokine (C-X-C motif) ligand 12 (CXCL12 / SDF-1alpha), transcript variant 1
Species:	Human
Expression Host:	E. coli
Expression cDNA Clone or AA Sequence:	Human SDF, the region of Lys22-Lys89, from gene Accession# NM_199168
Tag:	Tag Free
Predicted MW:	8.0 kDa
Concentration:	lot specific
Purity:	>98%, as determined by Coomassie stained SDS-PAGE.
Buffer:	20 mM Tris pH 8.0, 0.5M NaCl
Bioactivity:	The ED50 is 80 - 120 ng/ml, corresponding to a specific activity of 1.25-0.83 x 10 ⁴ units/mg.
Endotoxin:	Less than 0.1 EU/μg (<0.01 ng/μg) protein as determined by the LAL method
Storage:	Store at -80°C.
Stability:	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.
RefSeq:	NP_954637
Locus ID:	6387
UniProt ID:	P48061
RefSeq Size:	1937
Cytogenetics:	10q11.21
RefSeq ORF:	267
Synonyms:	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: