

SDF-1 alpha (CXCL12) active protein

Human SDF-1 alpha (CXCL12)

CATALOG # AAA79145	HOST E. coli	REACTIVITY Human
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PRODUCT SYNONYMS

SDF-1 alpha (CXCL12); Human SDF-1 alpha (CXCL12); CXCL12; IRH; PBSF; SDF1; TLSF; SDF1A; SDF1B; TPAR1; SCYB12; SDF-1 alpha (CXCL12) active protein

PRODUCT SPECIFICATIONS

Host	E. coli
Reactivity	Human
Purity/Purification	> 98% by SDS-PAGE & HPLC analyses
Form/Format	Lyophilized
Sequence	KPVLSYRCP CRFFESHVAR ANVKHLKILN TPNCALQIVA RLKNNNRQVC IDPKLKWIQE YLEKALNK
Sequence Length	68
Length	68
Biological Activity	Determined by its ability to chemoattract human peripheral T cells activated with PHA and IL-2 using a concentration of 20-80 ng/ml.
Endotoxin level	<0.1 ng/ug of protein (<1EU/ug).
Preparation and Storage	Stability: The lyophilized protein is stable at room temperature for 1 month and at 4°C for 6 months. Reconstituted working aliquots are stable for 1 week at 2°C to 8°C and for 3 months at -20°C to -80°C. Reconstitution: Centrifuge the vial prior to opening. Reconstitute in water to a concentration of 0.1-1.0 mg/ml. Do not vortex. This solution can be stored at 2-8°C for up to 1 week. For extended storage, it is recommended to further dilute in a buffer containing a carrier protein (example 0.1% BSA) and store in working aliquots at -20°C to -80°C.

ADDITIONAL INFORMATION

Related Product Information for SDF-1 alpha (CXCL12) active protein	SDF-1 alpha and beta are stromal-derived, CXC chemokines that signal through the CXCR4 receptor. SDF-1 alpha and beta chemoattract B and T cells, and have been shown to induce migration of CD34+ stem cells. Additionally, the SDF-1 proteins exert HIV-suppressive activity in cells expressing the CXCR4 receptor. Human and murine SDF-1 proteins act across species. SDF-1 alpha and beta contain the four highly conserved cysteine residues present in CXC chemokines. The mature SDF-1 alpha protein is the result of alternative splicing of the SDF-1 gene and contains 68 amino acid residues. Recombinant Human SDF-1 alpha is an 8.0 kDa protein containing 68 amino acid residues.
Product Categories/Family for SDF-1 alpha (CXCL12) active protein	Cytokines & Growth Factors

NCBI AND UNIPROT INFORMATION

NCBI GI #	10834988
NCBI GeneID	6387
NCBI Accession #	NP_954637.1

NCBI GenBank Nucleotide #	NM_000609.6
UniProt Accession #	P48061 ; Q2L985 ; Q2L986 ; Q2L988 ; Q5IT36 ; Q6ICW0 ; Q9H554 ; B2R4G0 ; E7EVL0
Molecular Weight	8.0 kDa
NCBI Official Full Name	stromal cell-derived factor 1 isoform beta
NCBI Official Synonym Full Names	chemokine (C-X-C motif) ligand 12
NCBI Official Symbol	CXCL12
NCBI Official Synonym Symbols	IRH; PBSF; SDF1; TLSF; TPAR1; SCYB12
NCBI Protein Information	stromal cell-derived factor 1; intercrine reduced in hepatomas; pre-B cell growth-stimulating factor
UniProt Protein Name	Stromal cell-derived factor 1
UniProt Gene Name	CXCL12
UniProt Synonym Gene Names	SDF1; SDF1A; SDF1B; SDF-1; hSDF-1; IRH; hIRH; PBSF
UniProt Entry Name	SDF1_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/e-coli-human-active-protein/sdf-1-alpha-cxcl12/79145>