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CXCL12
Recombinant Human CXCL12 / SDF-1 alpha

Catalog No.	CRS000A	**Quantity:**	2 µg
	CRS000B		10 µg
	CRS000C		1.0 mg
	CRS000D		500 µg

Alternate Names: C-X-C motif chemokine 12, Stromal cell-derived factor 1, SDF-1

Description: CXCL12/ SDF-1 alpha is an antimicrobial stromal cell-derived alpha chemokine member of the intercrine family. The protein functions as the ligand for the G-protein coupled receptor CXCR4 and plays a role in many diverse cellular functions, including embryogenesis, immune surveillance, inflammation response, tissue homeostasis, and tumor growth and metastasis. CXCL12 is a chemoattractant for T-lymphocytes, monocytes, pro- and pre- B cells, but not neutrophils. uman and mouse SDF-1 α share 99% sequence identity.

Gene ID: 6387

UniProt ID: P48061

Source: *E. coli*

Molecular Weight: 8.0 kDa (68 aa) monomer

Formulation: Lyophilized from a sterile-filtered aqueous solution containing 0.1% Trifluoroacetic Acid (TFA).

Purity: ≥ 95% by reducing and non-reducing SDS-PAGE

Endotoxin Level: ≤ 1 EU/µg of protein by kinetic LAL analysis.

Biological Activity: This product demonstrates primary human T cell chemotaxis at a starting concentration of 5-20 ng/ml.

Amino Acid Sequence: KPVSLSYRCP CRFFESHVAR ANVKHLKILN TPNCALQIVA RLKNNNRQVC IDPKLKWIQE YLEKALNK

Reconstitution: **Centrifuge vial prior to opening.** Add sterile distilled water to a concentration of 0.1 mg/ml. **DO NOT VORTEX.** Allow several minutes for complete reconstitution. Further dilutions should be made in appropriate buffered solutions.

Storage & Stability: Store as supplied at -20°C to -80°C for up to 1 year. Upon reconstitution, prepare working aliquots and store at -20°C to -80°C. It is recommended that a carrier protein such as 0.1% HSA or BSA is added for long term storage.
Avoid repeated freeze-thaw cycles.

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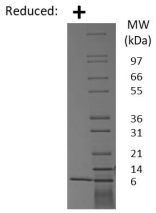

Human SDF-1 alpha / CXCL12 Gel
Figure: 1 ug run under (+) reducing conditions in a 4-20% Tris-Glycine gel, stained with Coomassie Blue. Human SDF-1 alpha / CXCL12 is predicted to have a MW of 8 kDa.

NOT FOR HUMAN USE. FOR RESEARCH ONLY. NOT FOR DIAGNOSTIC OR THERAPEUTIC USE.

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