

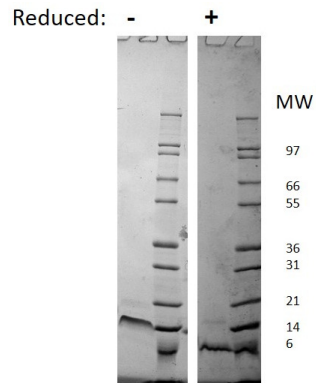
CXCL12

Recombinant Human CXCL12/ SDF-1 alpha

Catalog No.	CRS000A CRS000B CRS000C CRS000D	Quantity:	2 µg 10 µg 1.0 mg 500 µg
Alternate Names:	Chemokine (C-X-C motif) Ligand 12, Stromal Cell-Derived Factor 1 alpha, IRH, PBSF, SCYB12, TLSF, TPAR1		
Description:	<p>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.</p> <p>Recombinant Human CSCL12/ SDF-1 alpha is a single, non-glycosylated polypeptide chain consisting of 68 amino acids.</p>		
Gene ID:	6387		
Protein Accession No:	P48061		
Source:	<i>E. coli</i>		
Molecular Weight:	8.0 kDa		
Formulation:	Lyophilized from a sterile-filtered aqueous solution containing 0.1% Trifluoroacetic Acid (TFA).		
Purity:	>98% by HPLC and SDS-PAGE		
Endotoxin Level:	≤1 EU/µg of protein by kinetic LAL analysis.		
Biological Activity:	Determined by a chemotaxis assay using activated human peripheral blood T-lymphocytes, typically in a concentration range of 10-75 ng/ml.		
Specific Activity:	~ 1 x 10 ⁵ units/mg		
Amino Acid Sequence:	KPVLSYRCP 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:	<p>Lyophilized product is stable at room temperature for shipping purposes. Upon receipt, store desiccated at -20°C for up to 1 year.</p> <p>Upon reconstitution, the preparation is stable for up to one month at 2-8°C. For long term storage, freeze in working aliquots and store at -20 to -80°C. For maximal stability, dilute to working aliquots in a 0.1% BSA solution. Avoid repeated freeze-thaw cycles.</p>		



Figure: 1 μ g run under (+) reducing conditions and (-) non-reducing conditions in a 4-20% Tris-Glycine gel, stained with Coomassie Blue.



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



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