

Cxcl12

Recombinant Rat CXCL12 β / SDF-1 beta

Catalog No.	CSI20134A CSI20134B CSI20134C	Quantity:	2 μ g 10 μ g 1.0 mg
Alternate Names:	Stromal cell-derived factor 1 subunit beta, C-X-C motif chemokine 12, Interkrine reduced in hepatomas, IRH, hIRH, Pre-B cell growth-stimulating factor, PBSF		
Description:	SDF-1 α and SDF-1 β are encoded by a single gene and arise by alternative splicing. The two proteins are identical except for the four amino acid residues that are present in the carboxy-terminus of SDF-1 β and absent from SDF-1 α . SDF-1/PBSF is highly conserved between species, with only one amino acid substitution between the mature human and mouse proteins. SDF-1/PBSF acts via the chemokine receptor CXCR4 and has been shown to be a chemoattractant for T-lymphocytes, monocytes, pro- and pre- B cells, but not neutrophils. Additionally, the SDF-1 proteins exert HIV suppressive activity in cells expressing the CXCR4 receptor.		
UniProt ID:	P48061		
Gene ID:	24772		
Source:	<i>E. coli</i>		
Molecular Weight:	~ 8.4 kDa (72 aa)		
Formulation:	Lyophilized from sterile-filtered concentrated solution in 20 mM phosphate buffer, 150 mM NaCl, pH 7.4		
Purity:	>97% by SDS-PAGE and HPLC analyses.		
Endotoxin Level:	< 1 EU/ μ g as determined by LAL method.		
Biological Activity:	Fully biologically active when compared to standard. The biological activity determined by a chemotaxis bioassay using human peripheral blood monocytes is in a concentration range of 100-200 ng/ml.		
Amino Acid Sequence:	KPVSLSYRCP CRFFESHVAR ANVKHLKILN TPNCALQIVA RLKSNNRQVC IDPKLKWIQE YLDKALNKRL KM		
Reconstitution:	Centrifuge vial prior to opening. Reconstitute in sterile distilled water or aqueous buffer containing 0.1 % BSA to a concentration of 0.1-1.0 mg/mL. Stock solutions should be divided into working aliquots and stored at < -20 °C. Further dilution should be made in appropriate buffered solutions.		
Storage & Stability:	Upon receipt store at -20°C to -80°C. Upon reconstitution, the preparation is stable for up to one week at 2-8°C or up to 3 months at -20°C to -80°C. Avoid repeated freeze/thaw cycles.		

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