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Cxcl12
Recombinant Mouse SDF-1 alpha / CXCL12

Catalog No.	CRS001B CRS001C	**Quantity:**	10 µg 1.0 mg

Description: Stromal cell-derived factor-1 alpha (SDF-1α), the alpha splice variant of the CXCL12 gene, is one of two SDF-1 splice variants made by a wide variety of cells upon stimulation by inflammatory cytokines such as TNF, IL-1, and LPS. SDF-1α signals through the G protein-coupled receptor CXCR4 to recruit activated leukocytes. **Human and mouse SDF-1α share 99% sequence identity.**

UniProt ID: Q4FJL5

Source: *E. coli*

Molecular Weight: 8 kDa (68 aa), monomer
Under non-reducing conditions, samples prepared at higher working concentrations produce a band of ~16 kDa on an SDS PAGE gel, which may represent dimer formation.

Formulation: Lyophilized from a sterile-filtered solution containing 1% Trifluoroacetic acid (TFA)

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

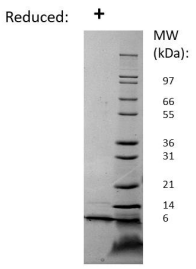
Endotoxin Level: ≤ 1EU/µg, determined by kinetic LAL analysis

Biological Activity: Activity data are unavailable at this time.

Amino Acid Sequence: KPVSLSYRCP CRFFESHIAR ANVKHLKILN TPNCALQIVA RLKNNNRQVC IDPKLKWIQE YLEKALNK

Reconstitution: **Centrifuge vial prior to opening.** Add sterile distilled water to a concentration of 0.1 mg/mL and gently pipette the solution up and down the sides of the vial. **DO NOT VORTEX**. Allow several minutes for complete reconstitution.

Storage & Stability: Store as supplied at -20°C to -80°C for up to 1 year. Upon reconstitution, store at 2-8°C for up to 1 month or prepare working aliquots and store at -20°C to -80°C for up to 3 months. 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.**



Mouse SDF-1 alpha Gel
Figure: 1 ug run under (+) reducing conditions in a 4-20% Tris-Glycine gel, stained with Coomassie Blue. Mouse SDF-1 alpha has a predicted MW of 8.0 kDa.

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