

**Product:** Stromal Cell-Derived Factor-1 alpha (CXCL12), Murine, Recombinant  
**Catalog #:** 11-SDF-1AM  
**Amount:** 5 µg

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**DESCRIPTION:** Recombinant Murine SDF-1alpha produced in E.Coli is a non-glycosylated, Polypeptide chain containing 68 amino acids and having a molecular mass of 7921 Dalton.  
The rmSDF-1alpha is purified by proprietary chromatographic techniques. The sequence of the first five N-terminal amino acids was determined and was found to be Lys-Pro-Val-Ser-Leu

**SOURCE:** *Escherichia coli* expression system

**MOLECULAR WEIGHT:** 7.9 kDa

**PURITY:** > 98.0% as determined by:  
(a) Analysis by RP-HPLC.  
(b) Anion-exchange FPLC.  
(c) Analysis by reducing and non-reducing SDS-PAGE Silver Stained gel.

**ENDOTOXIN:** Less than 0.1 ng/µg (IEU/µg) of SDF-1alpha.

**DIMERS & AGGREGATES:** Less than 1% as determined by silver-stained SDS-PAGE gel analysis.

**PROTEIN CONTENT:** Protein quantitation was carried out by two independent methods:  
1. UV spectroscopy at 280 nm.  
2. RP-HPLC-Analysis, using a standard solution of Murine SDF-1α as a Reference Standard.

**FORM:** Purified.

**CONCENTRATION:** 0.1 mg/ml

**STORAGE:** -20°C (aliquot), avoid freezing and thawing cycles

**BIOLOGICAL ACTIVITY:** Murine SDF-1alpha is fully biologically active when compared to standard.  
The specific activity as determined by its ability to chemoattract human peripheral blood monocytes at 50-100 ng/ml.

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