

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

DESCRIPTION: Recombinant Human SDF-1alpha produced in E.Coli is a non-glycosylated, Polypeptide chain containing 68 amino acids and having a molecular mass of 8004 Dalton.
The rHuSDF-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: 8.0 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 using the absorbency value of 1.06 as the extinction coefficient for a 0.1% (1mg/ml) solution. This value is calculated by the PC GENE computer analysis program of protein sequences (IntelliGenetics).
2. Analysis by RP-HPLC, using a standard solution of SDF-1alpha as a Reference Standard.

FORM: Purified.

CONCENTRATION: 0.1 mg/ml

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

BIOLOGICAL ACTIVITY: SDF-1alpha is fully biologically active when compared to standard. The specific activity as determined by its ability to chemoattract human peripheral T cells activated with PHA and IL-2 using a concentration of 20-80 ng/ml.

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