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## Recombinant human/feline SDF-1/CXCL12 alpha protein

Catalog Number: ATGP0322

#### PRODUCT INFORMATION

#### **Expression system**

E.coli

#### **Domain**

22-93aa

#### UniProt No.

P48061/062657

#### **NCBI Accession No.**

NP\_000600/NP\_001009847.1

#### **Alternative Names**

C-X-C motif chemokine ligand 12, Stromal cell-derived factor 1, C-X-C motif chemokine 12, Intercrine reduced in hepatomas, IRH, hIRH, Pre-B cell growth-stimulating factor, PBSF, SDF1, SDF1A, SDF1B, SCYB12, TLSF-a, TLSF-b, TPAR1

#### **PRODUCT SPECIFICATION**

#### **Molecular Weight**

10.8 kDa (93aa) confirmed by MALDI-TOF

#### Concentration

0.5mg/ml (determined by absorbance at 280nm)

#### **Formulation**

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 10% glycerol

#### **Purity**

> 90% by SDS-PAGE

#### **Endotoxin level**

< 1 EU per 1ug of protein (determined by LAL method)

#### Tag

His-Tag

### **Application**

SDS-PAGE

#### **Storage Condition**

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

### **BACKGROUND**

#### **Description**

SDF-1 is small cytokine belonging to the chemokine family that is officially designated Chemokine (C-X-C motif) ligand 12 (CXCL12). SDF-1 is strongly chemotactic for lymphocytes and works by its receptor CXCR4. The SDF-



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1+CXCR4 complex plays a significant role in the creation of metastases of neoplasms and as a response to cytostatic treatment. Identification of this complex may be a useful prognostic factor in the therapy of many types of carcinoma. Recombinant human/Feline SDF-1, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography.

#### **Amino acid Sequence**

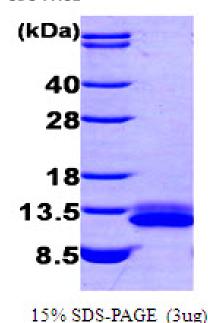
MGSSHHHHHH SSGLVPRGSH MKPVSLSYRC PCRFFESHVA RANVKHLKIL NTPNCALQIV ARLKNNNRQV CIDPKLKWIQ EYLEKALNKR FKM

#### **General References**

Arya M., et al. (2007). Tumour Biol. 28(3):123-31. Kucia M., et al. (2005). Stem Cells. 23(7):879-94.

#### DATA

#### **SDS-PAGE**



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

