

Recombinant human/feline SDF-1/CXCL12 alpha protein

Catalog Number: ATGP0322

PRODUCT INFORMATION

Expression system

E.coli

Domain

22-93aa

UniProt No.

P48061/O62657

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 SGLVPRGSH MKPVLSYRC PCRFFESHVA RANVKHLKIL NTPNCALQIV ARLKNNNRQV CIDPKLKWIQ
EYLEKALNKR FKM

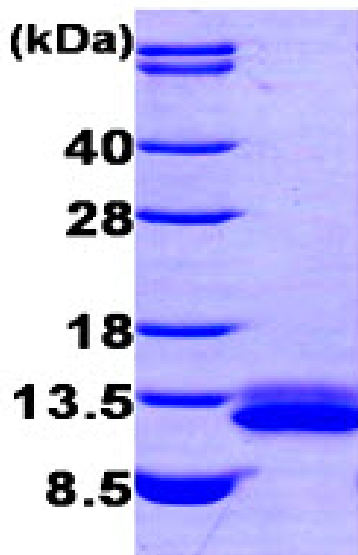
General References

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.

15% SDS-PAGE (3ug)