

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, Interocrine 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

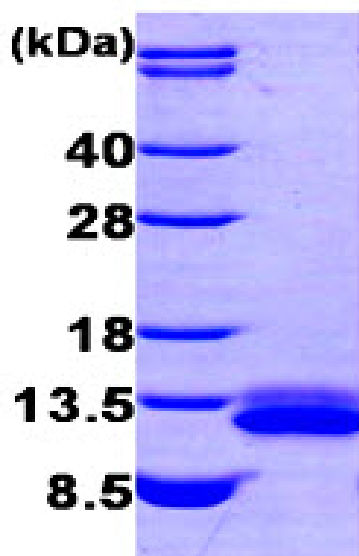
MGSSHHHHHH SSGLVPRGSH MKPVSLSYRC PCRFFESHVA RANVKHLKIL NTPNCALQIV ARLKNNNRQV CIDPKLKWIQ
EYLEKALNKR FKM

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.

15% SDS-PAGE (3ug)