

AR09203PU-N

Human CXCL12 / SDF1 (22-93, His-tag) - Purified

Alternate names:

C-X-C motif chemokine 12, IRH, Interocrine reduced in hepatomas, PBSF, Pre-B cell growth-stimulating factor, SDF1A, SDF1B, Stromal cell-derived factor 1, HIRH

Quantity:

50 µg

Concentration:

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

Background:

SDF-1 is a 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-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.

Uniprot ID:

[P48061](#)

NCBI:

[NP_000600](#)

GeneID:

[6387](#)

Species:

Human

Source:

E. coli

Format:

State: Liquid purified peptide

Purity: >90% by SDS - PAGE

Buffer System: 20 mM Tris-HCl buffer (pH 8.0) containing 10% glycerol

Endotoxin Level: < 1.0 EU per 1 µg of protein (determined by LAL method)

Description:

Recombinant human SDF-1, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography.

AA Sequence:

MGSSHHHHHH SSGLVPRGSH MKPVLSYRC PCRFFESHVA RANVKHLKIL NTPNCALQIV
ARLKNNNRQV CIDPKLKWIQ EYLEKALNKR FKM

Molecular weight: 10.8 kDa (93 aa), confirmed by MALDI-TOF

Storage:

Store undiluted at 2-8°C for up to two weeks or (in aliquots) at -20°C or -70°C for longer.

Avoid repeated freezing and thawing.

Shelf life: one year from despatch.

General Readings:

Arya M., et al. (2007). Tumour Biol. 28(3):123-31.

Kucia M., et al. (2005). Stem Cells. 23(7):879-94.

Pictures:

SDF-1 (CXCL12), 22-93 aa human, His-tagged, recombinant: 15% SDS-PAGE (3 µg)

