

Product information



SDF-1 , 22-93aa

Human, His-tagged, Recombinant, *E.coli*

Cat. No. IBATGP0322

Full name: Stromal cell-derived factor 1

NCBI Accession No.: NP_000600

Synonyms: CXCL12, PBSF, hIRH

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

<p>Form: Liquid. In 20 mM Tris-HCl buffer (pH 8.0) containing 10% glycerol</p> <p>Molecular Weight: 10.8 kDa (93aa)</p> <p>Purity: > 90% by SDS - PAGE</p> <p>Concentration: 0.5 mg/ml (determined by Bradford assay)</p> <p>Endotoxin Level: < 1.0 EU per 1 µg of protein (determined by LAL method)</p>	<p>(kDa)</p> <p>40</p> <p>28</p> <p>18</p> <p>13.5</p> <p>8.5</p> <p>15% SDS-PAGE (3µg)</p>
<p>Sequences of amino acids:</p> <p><u>MGSSHHHHHH</u> <u>SSGLVPRGSH</u> <u>MKPVLS</u>SYRC PCRFFESHVA RANVKHLKIL NTPNCALQIV ARLKNNNRQV CIDPKLKIWIQ EYLEKALNKR FKM</p>	

General references:

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

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

Storage: Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C.

WARNING: THIS PRODUCT IS NOT INTENDED OR APPROVED FOR HUMAN, DIAGNOSTICS OR VETERINARY USE. USE OF THIS PRODUCT FOR HUMAN OR ANIMAL TESTING IS EXTREMELY HAZARDOUS AND MAY RESULT IN DISEASE, SEVERE INJURY, OR DEATH.

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Avoid repeated freezing and thawing cycles.

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