# Recombinant Human CXCL12/SDF-1 Protein (aa22-93)

Catalog Number: PKSH032297



Note: Centrifuge before opening to ensure complete recovery of vial contents.

# **Description**

Synonyms Stromal Cell-Derived Factor 1;SDF-1;hSDF-1;C-X-C Motif Chemokine

12; Intercrine Reduced in Hepatomas; IRH; hIRH; Pre-B Cell Growth-Stimulating

Factor; PBSF; CXCL12; SDF1; SDF1A; SDF1B

SpeciesHumanExpression HostE.coli

Sequence Lys22-Met93

Accession P48061
Calculated Molecular Weight 8.5 kDa
Observed molecular weight 8 kDa
Tag None

## **Properties**

**Purity** > 95 % as determined by reducing SDS-PAGE.

**Endotoxin** < 1.0 EU per µg of the protein as determined by the LAL method.

**Storage** Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to

-80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots

of reconstituted samples are stable at < -20°C for 3 months.

**Shipping** This product is provided as lyophilized powder which is shipped with ice packs.

**Formulation** Lyophilized from a 0.2 µm filtered solution of PBS, pH 7.4.

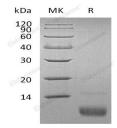
Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as

protectants before lyophilization.

Please refer to the specific buffer information in the printed manual.

**Reconstitution** Please refer to the printed manual for detailed information.

#### Data



> 95 % as determined by reducing SDS-PAGE.

## **Background**

Stromal Cell-Derived Factor-1 (SDF-1) is a chemokine member of the intercrine family. SDF1 is expressed as five isoforms that differ only in the C terminal tail. SDF1 $\alpha$  and SDF1 $\beta$  are identical except for the four residues present in the C-terminus of SDF1 $\beta$  but absent from SDF1 $\alpha$ . SDF1 isoforms interact with CXCR4 and CXCR7 receptors on the cell surface; and can also bind syndecan4. SDF1 is known to influence lymphopoiesis; regulate patterning and cell number of neural progenitors; and promote angiogenesis. It also enhances the survival of myeloid progenitor cells.

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