

# Recombinant Human CXCL12/SDF-1 Protein (aa22-89)

Catalog Number:PKSH032296

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

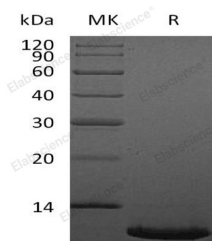
## Description

<b>Synonyms</b>	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
<b>Species</b>	Human
<b>Expression Host</b>	E.coli
<b>Sequence</b>	Lys22-Lys89
<b>Accession</b>	P48061
<b>Calculated Molecular Weight</b>	8.1 kDa
<b>Observed molecular weight</b>	10 kDa
<b>Tag</b>	None

## Properties

<b>Purity</b>	> 95 % as determined by reducing SDS-PAGE.
<b>Endotoxin</b>	< 0.01 EU per µg of the protein as determined by the LAL method.
<b>Storage</b>	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.
<b>Shipping</b>	This product is provided as lyophilized powder which is shipped with ice packs.
<b>Formulation</b>	Lyophilized from a 0.2 µm filtered solution of 20mM PB, 150mM NaCl, 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 man
<b>Reconstitution</b>	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.

## For Research Use Only

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