

# Recombinant Human CXCL12 (24-88) protein(His Tag)

Catalog Number:PKSH034169



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

## Description

<b>Synonyms</b>	IRH;PBSF;SCYB12;SDF1;TLSF;TPAR1
<b>Species</b>	Human
<b>Expression Host</b>	E.coli
<b>Sequence</b>	Val 24-Leu 195
<b>Accession</b>	P48061
<b>Calculated Molecular Weight</b>	8.6 kDa
<b>Observed molecular weight</b>	10 kDa
<b>Tag</b>	C-His
<b>Bioactivity</b>	Measure by its ability to chemoattract BaF3 cells transfected with human CXCR4. The ED <sub>50</sub> for this effect is < 0.5 ng/mL.

## Properties

<b>Purity</b>	> 98 % as determined by reducing SDS-PAGE.
<b>Endotoxin</b>	< 0.1 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 sterile 20 mM sodium citrate, 0.1 M NaCl, pH 4.5. 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.
<b>Reconstitution</b>	Please refer to the printed manual for detailed information.

## 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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