



# Recombinant Human CXCL12 (68AA)

<b>Catalog #</b>	EPT140
<b>Expression Host</b>	E.coli
<b>DESCRIPTION</b>	Recombinant Human C-X-C Motif Chemokine 12 is produced by our E.coli expression system and the target gene encoding Lys22-Lys89 is expressed.
<b>Accession</b>	P48061
<b>Synonyms</b>	Stromal Cell-Derived Factor 1; SDF-1; hSDF-1; C-X-C Motif Chemokine 12; Interocrine Reduced in Hepatomas; IRH; hIRH; Pre-B Cell Growth-Stimulating Factor; PBSF; CXCL12; SDF1; SDF1A; SDF1B
<b>Mol Mass</b>	8 KDa
<b>AP Mol Mass</b>	10 KDa, reducing conditions
<b>Purity</b>	Greater than 95% as determined by reducing SDS-PAGE.
<b>Endotoxin</b>	Less than 0.001 ng/μg (0.01 EU/μg) as determined by LAL test.
<b>FORMULATION</b>	Lyophilized from a 0.2 μm filtered solution of 20mM PB, 150mM NaCl, pH 7.4.





## RECONSTITUTION

Always centrifuge tubes before opening. Do not mix by vortex or pipetting.

It is not recommended to reconstitute to a concentration less than 100 $\mu$ g/ml.

Dissolve the lyophilized protein in distilled water.

Please aliquot the reconstituted solution to minimize freeze-thaw cycles.

## SHIPPING

The product is shipped at ambient temperature.

Upon receipt, store it immediately at the temperature listed below.

## STORAGE

Lyophilized protein should be stored at  $< -20^{\circ}\text{C}$ , though stable at room temperature for 3 weeks.

Reconstituted protein solution can be stored at  $4-7^{\circ}\text{C}$  for 2-7 days.

Aliquots of reconstituted samples are stable at  $< -20^{\circ}\text{C}$  for 3 months.

## 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.

## SDS-PAGE

