

Recombinant Human CXCL12 (68AA)

Catalog # EPT140

Expression Host E.coli

DESCRIPTION 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.

Accession P48061

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

Mol Mass 8 KDa

AP Mol Mass 10 KDa, reducing conditions

Purity Greater than 95% as determined by reducing

SDS-PAGE.

Endotoxin Less than 0.001 ng/μg (0.01 EU/μg) as determined by

LAL test.

FORMULATION Lyophilized from a 0.2 µm filtered solution of 20mM

PB, 150mM NaCl, pH 7.4.



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RECONSTITUTION

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

It is not recommended to reconstitute to a concentration less than 100µg/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 ° C, though stable at room temperature for 3 weeks.

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

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

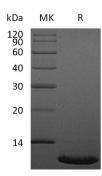
BACKGROUND

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 α and SDF1 β are identical except for the four residues present in the C-terminus of SDF1 β but absent from SDF1 α . 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



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