



**Recombinant Human C-X-C Motif Chemokine 12/CXCL12/SDF-1(22-89) Protein**

**Cat.NO.: TP05790**

3th Edition

**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

**Description:**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<sup>1</sup> and SDF1<sup>2</sup> are identical except for the four residues present in the C-terminus of SDF1<sup>1</sup> but absent from SDF1<sup>2</sup>. 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.

**Form:**PBS

**Molecular Weight:**8.1 kDa

**Sequences:**Lys22-Lys89

**Purity:**> 95% by HPLC

**Concentration:**

**Endotoxin Level:**<1.0 EU per 1 ug of protein (determined by LAL method)

**Storage:**Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.