

# Mouse SDF 1a Recombinant Protein



RPPB1248

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## Product Information   Protein Information

**Product SKU:**

RPPB1248

**Accession:**

P40224

**Host:**

Escherichia Coli.

**Protein description:**

Stromal Cell-Derived Factor-1 alpha Mouse Recombinant produced in E.Coli is a non-glycosylated, Polypeptide chain containing 68 amino acids and having a molecular mass of 8 kDa. The SDF-1a is purified by proprietary chromatographic techniques.

**Appearance:**

Sterile Filtered White lyophilized (freeze-dried) powder.

**Synonyms:**

SDF-1, CXCL12, Pre-B cell growth-stimulating factor, PBSF, hIRH, chemokine (C-X-C motif) ligand 12, SDF1, SDF1A, TPAR1, SCYB12, SDF-1a, TLSF-a, 12-O-tetradecanoylphorbol 13-acetate repressed protein 1, Thymic lymphoma cell-stimulating factor, TLSF.

**Formulation:**

The protein was Lyophilized from a sterile filtered aqueous solution containing 0.1% Trifluoroacetic Acid (TFA).

**Purity:**

Greater than 95% as determined by SDS-PAGE.

**Solubility:**

It is recommended to reconstitute the lyophilized Stromal Cell-Derived Factor-1a in sterile 18MΩ-cm H<sub>2</sub>O not less than 100μg/ml, which can then be further diluted to other aqueous solutions.

**Stability:**

Lyophilized SDF-1a although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution CXCL12 should be stored at 4°C between 2-7 days and for future use below -18°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.

**Amino Acid Sequence:**

The sequence of the first five N-terminal amino acids was determined and was found to be Lys-Pro-Val-Ser-Leu.

**Biological Activity:**

The specific activity as determined by its ability to chemoattract human peripheral blood monocytes at 50-100 ng/ml corresponding to a Specific Activity of 10,000-20,000IU/mg.