

# Rat SDF 1b Recombinant Protein



RPPB1255

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## Product Information    Protein Information

**Product SKU:**

RPPB1255

**Accession:**

Q80YV8

**Host:**

Escherichia Coli.

**Protein description:**

SDF-1 beta Rat Recombinant produced in E.Coli is a non-glycosylated, Polypeptide chain containing 72 amino acids and having a molecular mass of 8.4 kDa. The Rat SDF-1b 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, SDF1B, TPAR1, SCYB12, SDF-1b, TLSF-b, 12-O-tetradecanoylphorbol 13-acetate repressed protein 1, Thymic lymphoma cell-stimulating factor, TLSF.

**Formulation:**

The Rat SDF1B protein was lyophilized from a concentrated (1mg/ml) sterile solution containing 20mM Phosphate buffer pH-7.4 and 0.15M NaCl.

**Purity:**

Greater than 97.0% as determined by:(a) Analysis by RP-HPLC.(b) Analysis by SDS-PAGE.

**Solubility:**

It is recommended to reconstitute the lyophilized SDF-1b 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-1b 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:**

KPVLSYRCP CRFFESHVAR ANVKHLKILN TPNCALQIVA RLKSNNRQVC IDPKLKWIQE YLDKALNKRL KM.

**Biological Activity:**

The specific activity as determined by its ability to chemoattract human peripheral blood monocytes at 100-150ng/ml corresponding to a Specific Activity of 6,667-10,000IU/mg.