

Rat SDF 1a Recombinant Protein



RPPB1250

Product Information Protein Information

Product SKU:

RPPB1250

Accession:

Q9QZD1

Host:

Escherichia Coli.

Protein description:

Stromal Cell-Derived Factor-1 alpha Rat Recombinant produced in E.Coli is a non-glycosylated, Polypeptide chain containing 68 amino acids and having a molecular mass of 7.9 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 CXCL12 protein was lyophilized from a concentrated (1 mg/ml) sterile solution containing 20mM Phosphate buffer pH-7.4 and 150mM 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-1a in sterile 18MΩ-cm H₂O 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:

KPVLSYRCP CRFFESHVAR ANVKHLKILN TPNCALQIVA RLKSNNRQVC IDPKLKWIQE YLDKALNK.

Biological Activity:

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