

Murine SDF-1-alpha / CXCL12

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.

PLEASE NOTE: ALWAYS CENTRIFUGE VIAL BEFORE OPENING

Size	Order #	Lot #	Expiry Date
2 µg	1895.960.002		
10 µg	1895.960.010		
1 mg	1895.960.199		

Please enquire for bulk quantities and other vial sizes

Description

Stromal Cell-Derived Factor-1 alpha Murine Recombinant produced in *E.Coli* is a non-glycosylated, Polypeptide chain containing 68 amino acids and having a molecular mass of 8 kDa.

- **Source** *E. Coli*
- **Purity** ≥ 95% (SDS-PAGE)
- **Endotoxin level** ≤ 0.1ng/µg (≤ 1EU/µg)
- **Buffer** The protein was Lyophilized from a sterile filtered aqueous solution containing 0.1% Trifluoroacetic Acid (TFA)*
- **Physical state** Sterile filtered, lyophilized

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.

Reconstitution

We recommend a quick spin followed by reconstitution in sterile water to a concentration of at least 100 µg/ml, which can then be further diluted to other aqueous solutions. Do not vortex.

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 avoid repeated 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.

Usage: For research use only. Not for use in diagnostic or therapeutic procedures. Not for human use.

*The Buffer may vary depending on the Lot #. Please contact our technical support if you have specific requirements.

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