

## Recombinant Rat Stromal Cell-Derived Factor 1 alpha (rr SDF1a / CXCL12a)

**SDF-1 alpha** and beta are stromal derived CXC chemokines and signal through the CXCR4 receptor. SDF-1alpha and beta chemoattract B and T cells, and have been shown to induce migration of CD34+ stem cells. Additionally, the SDF-1 proteins exert HIV suppressive activity in cells expressing the CXCR4 receptor.

Recombinant rat SDF-1alpha is a 7.9 kDa protein containing 68 amino acid residues.

**Synonyms :** Pre-B cell growth-stimulating factor (PBSF), chemokine (C-X-C motif) ligand 12

**Source:** *Escherichia coli*

**AA Sequence:** N-terminal MET

**Formulation:** Lyophilisate from a 0.22 µm filtered carrier free solution in 25mM sodium phosphate, pH 7.0 + 200mM sodium chloride.

**Reconstitution:** Reconstitute in sterile endotoxin free water not less than 100 µg/ml

**Stability:** The lyophilized protein is stable for at least 2 years at -20°C. Reconstituted rr SDF-1a is stable for at least 3 months when stored in concentrated working aliquots (100 ng/µl or higher) at -20°C. Avoid repeated freeze/thaw cycles.

**Biological Activity:** Determined by its ability to chemoattract human peripheral blood monocytes at 50 – 100 ng/ml.

**Purity:** 95% (verified by SDS-PAGE / silver stain)

**Endotoxicity:** The endotoxin level is less than 0.1 ng per µg (1EU/µg) determined by LAL method

**Order N°:** rr SDF-1a+Size  
available sizes: 2 µg, 10 µg, 50 µg

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