



Technical Data Sheet

Recombinant Rat SDF-1(rRt SDF-1 β /CXCL12)

Rat SDF-1 β /CXCL12

SDF-1 α and β are stromal derived CXC chemokines, and signal through the CXCR4 receptor. SDF-1 α and β 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.

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| Catalog Number: | RC352-23B |
| Source: | <i>Escherichia coli</i> . |
| Molecular Weight: | 8.4 kDa, a single non-glycosylated polypeptide chain containing 72 amino acids. |
| Quantity: | 2 μ g/10 μ g/1mg |
| Purity: | >97% by SDS-PAGE and HPLC analyses. |
| Biological Activity: | Fully biologically active when compared to standard. Determined by its ability to chemoattract human monocytes using a concentration range of 100.0-200.0 ng/ml. |
| Physical Appearance: | Sterile Filtered White lyophilized (freeze-dried) powder. |
| Formulation: | Lyophilized from a 0.2 μ m filtered concentrated solution in 20mM PB, pH 7.4, 150mM NaCl. |
| AA Sequence: | KPVLSYRCP CRFFESHVAR ANVKHLKILN TPNCALQIVA RLKSNRQVC IDPKLKWIQE YLDKALNKRL KM |
| Endotoxin: | Less than 1EU/ μ g of rRtSDF-1 β /CXCL12 as determined by LAL method. |
| Reconstitution: | We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute in sterile distilled water or aqueous buffer containing 0.1% BSA to a concentration of 0.1-1.0 mg/mL. Stock solutions should be apportioned into working aliquots and stored at \leq -20°C. Further dilutions should be made in appropriate buffered solutions. |
| Storage: | This lyophilized preparation is stable at 2-8°C, but should be kept at -20°C for long term storage, preferably desiccated. Upon reconstitution, the preparation is stable for up to one week at 2-8°C. For maximal stability, apportion the reconstituted preparation into working aliquots and store at -20°C to -70°C. Avoid repeated freeze/thaw cycles. |
| Usage: | This material is offered by Bio Basic Inc for research, laboratory or further evaluation purposes. NOT FOR HUMAN USE. |