DATASHEET
Version 20181206

SDF-1β/CXCL12, Rat

Cat. No.: Z02860-10

Size: 10.0 ug

Synonyms: SDF-1 beta/CXCL12, Rat

Description:

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

Amino Acid Sequence:

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00001 KPVSLSYRCP CRFFESHVAR ANVKHLKILN TPNCALQIVA
00041 RLKSNNRQVC IDPKLKWIQE YLDKALNKRL KM
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Source: *E. coli*

Species: Rat

Biological Activity: Fully biologically active when compared to standard. The biological activity determined by a chemotaxis bioassay using human peripheral blood monocytes is in a concentration range of 100-200 ng/ml.

Molecular Weight: Approximately 8.4 kDa, a single non-glycosylated polypeptide chain containing 72 amino acids.

Formulation: Lyophilized from a 0.2 μm filtered concentrated solution in 20 mM PB, pH 7.4, 150 mM NaCl.

Appearance: Sterile Filtered White lyophilized (freeze-dried) powder.

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 ≤ -20 °C. Further dilutions should be made in appropriate buffered solutions.

Purity: > 97 % by SDS-PAGE and HPLC analyses.

Endotoxin Level: Less than 1 EU/μg of rRtSDF-1β/CXCL12β as determined by LAL method.

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.

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