

SDF-1 α /CXCL2, rat recombinant

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| CATALOG #: | 7199-10 | 10 μ g |
| | 7199-50 | 50 μ g |
| ALTERNATE NAMES: | Stromal-Cell Derived Factor-1, CXCL12, PBSF | |
| SOURCE: | E coli | |
| PURITY: | \geq 98% by SDS-PAGE gel and HPLC analyses | |
| MOL. WEIGHT: | 7.9 kDa | |
| ENDOTOXIN LEVEL: | < 0.1 ng/ μ g of protein (<1EU/ μ g). | |
| FORM: | Lyophilized | |
| FORMULATION: | Sterile filtered through a 0.2 micron filter. Lyophilized with no additives | |
| STORAGE CONDITIONS: | Store at -20°C. After reconstitution, aliquot and store at -20°C to -80°C. Avoid repeated freezing and thawing cycles. | |

RECONSTITUTION:

Centrifuge the vial prior to opening. Reconstitute in water to a concentration of 0.1-1.0 mg/ml. Do not vortex. This solution can be stored at 2-8°C for up to 1 week. For extended storage, it is recommended to further dilute in a buffer containing a carrier protein (example 0.1% BSA) and store in working aliquots at -20°C to -80°C.

DESCRIPTION:

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-1 α is a 7.9 kDa protein containing 68 amino acid residues.

AMINO ACID SEQUENCE:

KPVLSYRCP CRFFESHVAR ANVKHLKILN TPNCALQIVA RLKSNNRQVC
IDPKLKWIQE YLDKALNK

BIOLOGICAL ACTIVITY:

Determined by its ability to chemoattract human peripheral blood monocytes using a concentration range of 50.0-100.0 ng/ml.

RELATED PRODUCTS:

- SDF-1 β , rat recombinant (**Cat # 7200-10, -50**)
- SDF-1 beta/CXCL12, feline recombinant (**Cat # 4389-10, -100, -1000**)
- SDF-1alpha (CXCL12), human recombinant (**Cat # 4387-10, -100, -1000**)
- SDF-1alpha (CXCL12), murine recombinant (**Cat # 4388-10, -100, -1000**)
- SDF-1beta (CXCL12), human recombinant (**Cat # 4390-10, -100, -1000**)
- SDF-1beta (CXCL12), murine recombinant (**Cat # 4391-10, -100, -1000**)

FOR RESEARCH USE ONLY! Not to be used in humans.