BioVision

SDF-1β/CXCL2, rat recombinant

CATALOG #:

7200-10	10 µg
7200-50	50 µg

ALTERNATE NAMES: Stromal-Cell Derived Factor-1, CXCL12, PBSF

SOURCE: E coli

PURITY: ≥ 95% by SDS-PAGE gel and HPLC analyses

MOL. WEIGHT: 8.4 kDa

ENDOTOXIN LEVEL: < 0.1 ng/µg of protein (<1EU/µg).

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-1β is an 8.4 kDa protein containing 72 amino acid residues.

AMINO ACID SEQUENCE:

KPVSLSYRCP   CRFFESHVAR   ANVKHLKILN   TPNCALQIVA   RLKSNNRQVC
IDPKLKWIQE YLDKALNKRL KM

BIOLOGICAL ACTIVITY:
Determined by its ability to chemoattract human monocytes using a concentration range of 100.0-200.0 ng/ml.

RELATED PRODUCTS:
- SDF-1α, rat recombinant **(Cat # 7199-10, -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.