

**SDF-1 $\alpha$ /CXCL2, rat recombinant protein**  
**Stromal-Cell Derived Factor-1, CXCL12, PBSF**  
**Catalog # PBV10829r****Specification**

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**SDF-1 $\alpha$ /CXCL2, rat recombinant protein - Product info**

Primary Accession [O9OZD1](#)  
Calculated MW **7.9 kDa** **KDa**

**SDF-1 $\alpha$ /CXCL2, rat recombinant protein - Additional Info**

Gene ID	<b>24772</b>
Gene Symbol	<b>SDF-1</b>
<b>Other Names</b>	
Stromal-Cell Derived Factor-1, CXCL12, PBSF	
Gene Source	<b>RAT</b>
Source	<b>E. Coli</b>
Assay&Purity	<b>SDS-PAGE; <math>\geq 98\%</math></b>
Assay2&Purity2	<b>HPLC;</b>
Recombinant	<b>Yes</b>
Sequence	<b>KPVSLSYRCP CRFFESHVAR ANVKHLKILN TPNCALQIVA RLKSNNRQVC IDPKLKWIQE YLDKALNK</b>

**Target/Specificity**  
**CXCL2**

**Application Notes**

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.

**Format**

Lyophilized powder

**Storage**

-20°C; Sterile filtered through a 0.2 micron filter. Lyophilized with no additives

**SDF-1 $\alpha$ /CXCL2, rat recombinant protein - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)

- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

**SDF-1 $\alpha$ /CXCL2, rat recombinant protein - Images****SDF-1 $\alpha$ /CXCL2, rat recombinant protein - Background**

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 $\alpha$  is a 7.9 kDa protein containing 68 amino acid residues.