

**Recombinant Rat SDF-1 $\alpha$  (CXCL12)**  
**Catalog # PBG10405****Specification**

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**Recombinant Rat SDF-1 $\alpha$  (CXCL12) - Product Information****Recombinant Rat SDF-1 $\alpha$  (CXCL12) - Additional Information****Description**

SDF-1 $\alpha$  and  $\beta$  are stromal derived CXC chemokines, and signal through the CXCR4 receptor. SDF-1 $\alpha$  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.

**Biological Activity**

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

**Authenticity**

Verified by N-terminal and Mass Spectrometry analyses (when applicable).

**Endotoxin**

Endotoxin level is <0.1 ng/  $\mu$ g of protein (<1EU/  $\mu$ g).

**Protein Content**

Verified by UV Spectroscopy and/or SDS-PAGE gel.

**Storage**

-20°C

**Precautions**

Recombinant Rat SDF-1 $\alpha$  (CXCL12) is for research use only and not for use in diagnostic or therapeutic procedures.

**Recombinant Rat SDF-1 $\alpha$  (CXCL12) - 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](#)

**Recombinant Rat SDF-1 $\alpha$  (CXCL12) - Images**