

## PRODUCT DATA SHEET



Bioworld Technology, Inc.

### Recombinant Rat SDF-1 $\beta$ (rRtSDF-1 $\beta$ /CXCL12 )

Catalog Number: PR3013

Source: Escherichia coli.

Quantity: 2 $\mu$ g/10 $\mu$ g/1.0mg

#### 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.

#### Molecular Weight:

8.4 kDa, a single non-glycosylated polypeptide chain containing 72 amino acids.

#### Purity:

>97% by SDS-PAGE and HPLC analyses.

#### Biological Activity:

Fully biologically active when compared to standard. Determined by its ability to chemoattract human monocytes using a concentration range of 100.0-200.0 ng/ml, corresponding to a Specific Activity of  $\square$ 5 x 10<sup>3</sup> IU/mg.

#### Physical Appearance:

Sterile Filtered White lyophilized (freeze-dried) powder.

#### Formulation:

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

#### AA Sequence:

K P V S L S Y R C P C R F F E S H V A R A N V K H L K  
I L N T P N C A L Q I V A R L K S N N R Q V C I D P K L

K W I Q E Y L D K A L N K R L K M

#### Endotoxin:

Less than 1EU/mg of rRtSDF-1 $\beta$ /CXCL12 as determined by LAL method.

#### 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.

#### 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.

#### Usage:

This material is offered by USA Bioworld biotech for research, laboratory or further evaluation purposes. NOT FOR HUMAN USE. Made in China

#### Bioworld Technology, Inc.

1660 South Highway 100, Suite 500 St. Louis Park, MN

55416, USA.

Tel: 6123263284

Email: [info@bioworld.com](mailto:info@bioworld.com)

Fax: 6122933841

MADE IN CHINA

#### Bioworld technology, co, Ltd.

No 9, weidi road Qixia District Nanjing, 210046, P, R.China.

Tel: 0086-025-86371664

Email: [info@biogot.com](mailto:info@biogot.com)

Fax: 0086-025-86213570