



# Recombinant Mouse SDF-1 alpha (CXCL12)

20150227BB



**FOR RESEARCH ONLY! NOT FOR HUMAN USE!**

<b>Cat.-no.:</b>	<b>M10-040S</b>
Size:	2 µg
Lot. No.:	According to product label

### Sequence

KPVLSLSYRCP CRFFESHAR ANVKHLKILN TPNCALQIVA  
RLKNNNRQVC IDEPKLWIQE YLEKALNK

### Database References

<b>Protein RefSeq:</b>	NP_068350.1
<b>Uniprot ID:</b>	P40224
<b>mRNA RefSeq:</b>	NM_021704

## Scientific Background

<b>Gene-ID (NCBI):</b>	912189
<b>Synonyms:</b>	Pxorf31

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 murine SDF-1 $\alpha$  is a 7.9 kDa protein containing 68 amino acid residues.

## Product Specifications

<b>Expressed in</b>	E. coli
<b>Purity</b>	> 98% by SDS-PAGE & HPLC analyses
<b>Endotoxin level</b>	< 0.1 ng /µg of protein (<1EU/µg).
<b>Formulation</b>	lyophilized
<b>Length (aa):</b>	68
<b>MW:</b>	7.9 kDa

**Biological Activity:** Determined by its ability to chemoattract human peripheral blood monocytes using a concentration of 50-100 ng/ml.



**AVOID REPEATED FREEZE AND THAW CYCLES!**