



Recombinant Mouse SDF-1 alpha (CXCL12)

20150227BB



FOR RESEARCH ONLY! NOT FOR HUMAN USE!

Cat.-no.:	M10-040
Size:	10 µg
Lot. No.:	According to product label

Sequence

KPVLSLSYRCP CRFFESHAR ANVKHLKILN TPNCALQIVA
RLKNNNRQVC IDEPKLWIQE YLEKALNK

Database References

Protein RefSeq:	NP_068350.1
Uniprot ID:	P40224
mRNA RefSeq:	NM_021704

Scientific Background

Gene-ID (NCBI):	912189
Synonyms:	Pxorf31

SDF-1 α and β are stromal derived CXC chemokines, and signal through the CXCR4 receptor. SDF-1 α and β 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 α is a 7.9 kDa protein containing 68 amino acid residues.

Product Specifications

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