



Recombinant Rat SDF-1 alpha (CXCL12)

20150227BB



FOR RESEARCH ONLY! NOT FOR HUMAN USE!

Cat.-no.:	R20-052
Size:	10 µg
Lot. No.:	According to product label

Sequence

KPVLSLSYRCP CRFFESHVAR ANVKHLKILN TPNCALQIVA
RLKSNRQVC IDPKLKIWE YLDKALNK

Database References

Protein RefSeq:	NP_071513.1
Uniprot ID:	Q9QZD1
mRNA RefSeq:	NM_022177.3

Scientific Background

Gene-ID (NCBI):	24772
Synonyms:	Cxcl12; Sdf1

Stromal cell-derived factor (SDF)-1 alpha and SDF-1 beta are the first cytokines initially identified using the signal sequence trap cloning strategy from a mouse bone-marrow stromal cell line. They are encoded by a single gene, PBSF, and arise by alternative splicing. The two proteins are identical except for the four amino acid residues that are present in the carboxy-terminus of SDF-1 beta and absent from SDF-1 alpha. SDF-1/PBSF is highly conserved between species. Human mature SDF-1 shares approximately 99% amino acid sequence identity with the mouse protein.

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 range of 50.0-100.0 ng/ml.



AVOID REPEATED FREEZE AND THAW CYCLES!