

## Datasheet for ABIN988229 CXCL12 Protein



OverviewQuantity:10 µgTarget:CXCL12

Target:	CXCL12
Origin:	Rat
Source:	Escherichia coli (E. coli)
Biological Activity:	Active

## Product Details

Sequence:	KPVSLSYRCP CRFFESHVAR ANVKHLKILN TPNCALQIVA RLKSNNRQVC IDPKLKWIQE YLDKALN
Characteristics:	Fully biologically active when compared to standard. The ED50 determined by a chemotaxis bioassay using human peripheral blood monocytes is less than 100 ng/ml, corresponding to a specific activity of >, $1.0 \times 104$ IU/mg.
Purity:	> 97 % by SDS-PAGE and HPLC analyses.
Endotoxin Level:	Level Less than 1EU/ $\mu$ g of rRtSDF-1 <sup>a</sup> /CXCL12 as determined by LAL method

## Target Details

Target:	CXCL12
Alternative Name:	SDF-1 alpha/cxcl12 (CXCL12 Products)
Background:	SDF-1 <sup>a</sup> and SDF-1beta, members of the chemokine <sup>a</sup> subfamily that lack the ELR domain, were initially identified using the signal sequence trap cloning strategy from a mouse bone-marrow
	stromal cell line. These proteins were subsequently also cloned from a human stromal cell line

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	as cytokines that supported the proliferation of a stromal cell-dependent pre-B-cell line. SDF-1ª
	and SDF-1beta cDNAs encode precursor proteins of 89 and 93 amino acid residues,
	respectively. Both SDF-1 <sup>a</sup> and SDF-1beta are encoded by a single gene 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-1beta and absent from SDF-1 <sup>a</sup> . SDF-1/PBSF is highly conserved
	between species, with only one amino acid substitution between the mature human and mouse
	proteins. SDF-1/PBSF acts via the chemokine receptor CXCR4 and has been shown to be a
	chemoattractant for T-lymphocytes, monocytes, pro- and pre- B cells, but not neutrophils.
	Synonym: SDF-1 alpha/CXCL12, Rat. Formulation: Lyophilized from a 0.2 $\mu$ m filtered
	concentrated solution in 20mM PB, pH 7.4, 150mM NaCl.
Molecular Weight:	7.9 kDa, a single non-glycosylated polypeptide chain containing 68 amino acids.
Pathways:	Regulation of Cell Size, CXCR4-mediated Signaling Events, Negative Regulation of intrinsic
	apoptotic Signaling
Application Details	
Restrictions:	For Research Use only
Handling	
Format:	Lyophilized
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:	4 °C