

Recombinant Rat SDF-1 α /CXCL12 α Protein

Product Information

Product Name	Cat#	Size
Recombinant Rat SDF-1 α /CXCL12 α Protein	90941ES10	10 μ g
	90941ES60	100 μ g
	90941ES76	500 μ g

Product Description

CXCL12 is belonging to the CXC chemokine family. CXCL12 is strongly chemotactic for T-lymphocytes, monocytes, but not neutrophils. Contrast to SDF-1 β , SDF-1 α is shorter by four amino acids at the C-terminal tail. CXCL12 is strongly chemotactic for T-lymphocytes, monocytes, but not neutrophils. SDF-1 is highly conserved between species, rat CXCL12 α shares approximately 96% amino acid sequence identity with human CXCL12 α . SDF-1 is highly conserved between species, rat CXCL12 α shares approximately 96% amino acid sequence identity with human CXCL12 α .

Product Properties

Synonyms	CXCL12 chemokine (C-X-C motif) ligand 12, CXCL12/SDF-1 alpha, IRH, PBSF, SCYB12, SDF1 alpha, SDF1, SDF1a, SDF1B
Accession	Q9QZD1
GeneID	24772
Source	E.coli-derived rat SDF-1 α /CXCL12 α protein, Lys22-Lys89.
Molecular Weight	Approximately 7.9 kDa.
AA Sequence	KPVVLSYRCP CRFFESHVAR ANVKHLKILN TPNCALQIVA RLKSNNRQVC IDPKLKWIQE YLDKALNK
Tag	None
Physical Appearance	Sterile Filtered White lyophilized (freeze-dried) powder.
Purity	>97% by SDS-PAGE and HPLC analyses.
Biological Activity	The biological activity determined by a chemotaxis bioassay using human peripheral blood monocytes is in a concentration range of 50-100 ng/mL. Fully biologically active when compared to standard.
Endotoxin	< 1.0 EU per 1 μ g of the protein by the LAL method.
Formulation	Lyophilized from a 0.2 μ m filtered concentrated solution in 20 mM PB, pH 7.4, 150 mM NaCl.
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 \leq -20 $^{\circ}$ C. Further dilutions should be made in appropriate buffered solutions.

Shipping and Storage

The products are shipped with ice pack and can be stored at -20 $^{\circ}$ C for 1 year.

1 month, 2 to 8 $^{\circ}$ C under sterile conditions after reconstitution.

3 months, -20 $^{\circ}$ C under sterile conditions after reconstitution.

Recommend to aliquot the protein into smaller quantities when first used and avoid repeated freeze-thaw cycles.

Cautions

1. For your safety and health, please wear lab coats and disposable gloves for operation.
2. For research use only!