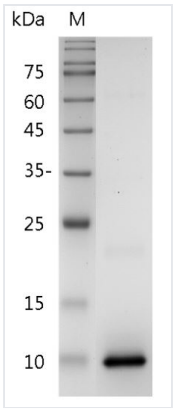
CXCL4 Human Recombinant Protein

PRODUCT OVERVIEW

Product Name	CXCL4, Recombinant Protein
Full Product Name	Human CXCL4 Protein, His tag (Animal-Free)
Product Gene Name	CXCL4 recombinant protein
Product Synonym Names	CXCL4; CXCL-4; CXCL 4; Platelet Factor-4; PF-4; Oncostatin A; Ironplact
Sequence	Glu32-Ser1 01
Host	E coli
Form/Format	Lyophilized from sterile PBS, pH 7.4.
Purity/Purification	>98 % as determined by SDS-PAGE
Preparation and Storage	Lyophilized protein product should be stored desiccated below -18 degree C. Upon reconstitution, the protein should be stored at 4 degree C between 2-7 days and for future use below -18 degree C. For long term storage it is recommended to add a carrier protein (5% HSA,10% FBS or 0.1%BSA). Please prevent freeze-thaw cycles. Shipping: Gel pack with blue ice.
Molecular Weight	10,845 Da
Sequence Positions	70aa
Chromosome Location	Chromosome: 4; NC_000004.11 (74846542..74847841, complement). Location: 4q12-q21
OMIM	173460
3D Structure	ModBase 3D Structure for P02776
Species	Human
Tag	His tag
Endotoxin	<0.1 EU per ug of the protein as determined by the LAL method.
Activity	Measure by its ability to inhibit human FGF-2-induce proliferation in HUVEC cells.The ED?? for this effect is <5ug/mL.
Protein Construction	The recombinant Human CXCL4 consists of 70 amino acids and predicts a molecular mass of 8.58kDa. Amino acid sequence derived from Human CXCL4 (Glu32-Ser101)(P02776) was expressed with 6×His tag at the N-terminus.
Usage Notes	Always centrifuge tubes before opening. It is recommended to reconstitute the lyophilized recombinant protein to a concentration of 0.1-1mg/mL using the buffer we provided, and keep at room temperature for at least 20 min to fully dissolve. Please avoid vortex vigorously.
Product Categories/Family for CXCL4 recombinant protein	Cytokines and proteins
Related Product Information for CXCL4 recombinant protein	C-X-C motif chemokine 4 (CXCL4) also named platelet factor 4 (PF4), which is a chemokine of the intercrine alpha family. CXCL4 is a 8kDa protein containing 70 amino acid residues. CXCL4 is produced by the activated platelets which plays an important role in immune responses. CXCL4 inhibit the cell proliferation, platelet aggregation and wound repair. CXCL4 also suppresses the hematopoiesis.
Other Notes	Small volumes of CXCL4 recombinant protein vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

Searchable Terms for CXCL4 purchase	MBS9719735 is a recombinant protein targeting CXCL4. Also known as Human CXCL4 Protein, His tag (Animal-Free). Host: E coli.



Testing Data of CXCL4 recombinant protein

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CXCL4. It may not necessarily be applicable to this product.

NCBI GI #	4505733
NCBI GeneID	5196
NCBI Accession #	NP_002610.1
UniProt Primary Accession #	P02776
UniProt Secondary Accession #	Q53X61; Q9UC64; Q9UC65
UniProt Related Accession #	P02776
GenBank Nucleotide #	NM_002619.3
NCBI Official Full Name	platelet factor 4
NCBI Official Synonym Full Names	platelet factor 4
NCBI Official Symbol	PF4
NCBI Official Synonym Symbols	PF-4; CXCL4; SCYB4
UniProt Protein Name	Platelet factor 4
UniProt Synonym Protein Names	C-X-C motif chemokine 4; Iroplact; Oncostatin-A
UniProt Gene Name	PF4
UniProt Synonym Gene Names	CXCL4; SCYB4; PF-4
UniProt Entry Name	PLF4_HUMAN
NCBI Protein Information	platelet factor 4; iroplact; oncostatin-A; C-X-C motif chemokine 4; chemokine (C-X-C motif) ligand 4
NCBI Summary for CXCL4	This gene encodes a member of the CXC chemokine family. This chemokine is released from the alpha granules of activated platelets in the form of a homotetramer which has high affinity for heparin and is involved in platelet aggregation. This protein is chemotactic for numerous other cell type and also functions as an inhibitor of hematopoiesis, angiogenesis and T-cell function. [provided by RefSeq, Mar 2012]

UniProt Comments for CXCL4	PF4: Released during platelet aggregation. Neutralizes the anticoagulant effect of heparin because it binds more strongly to heparin than to the chondroitin-4-sulfate chains of the carrier molecule. Chemotactic for neutrophils and monocytes. Inhibits endothelial cell proliferation, the short form is a more potent inhibitor than the longer form. Belongs to the intercrine alpha (chemokine CxC) family. Protein type: Motility/polarity/chemotaxis; Secreted; Apoptosis; Chemokine; Secreted, signal peptide Chromosomal Location of Human Ortholog: 4q12-q21 Cellular Component: extracellular space; extracellular region Molecular Function: heparin binding; CXCR3 chemokine receptor binding; chemokine activity Biological Process: negative regulation of cytolysis; platelet activation; cytokine and chemokine mediated signaling pathway; leukocyte chemotaxis; response to lipopolysaccharide; positive regulation of leukocyte chemotaxis; positive regulation of cAMP metabolic process; positive regulation of tumor necrosis factor production; negative regulation of megakaryocyte differentiation; regulation of cell proliferation; G-protein coupled receptor protein signaling pathway; negative regulation of angiogenesis; platelet degranulation; negative regulation of MHC class II biosynthetic process; positive regulation of transcription from RNA polymerase II promoter; immune response; inflammatory response; positive regulation of macrophage differentiation; blood coagulation
Research Articles on CXCL4	**1.** Report ability of enoxaparin-derived oligosaccharides to induce platelet activation and exposure of platelet-factor 4 epitopes recognized by antibodies developed in heparin induced thrombocytopenia.
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