

Active Recombinant Human PF4 Protein (Glu32-Ser101), N-His tagged, Animal-free, Carrier-free

Cat. No. PF4-245H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human PF4 Protein (Glu32-Ser101) with N-His tag was expressed in E. coli and Animal-free as well as Carrier-free.
Species	Human
Source	E.coli
ProteinLength	Glu32-Ser101
Description	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.
Form	Lyophilized
Bio-activity	Measure by its ability to inhibit human FGF-2-induce proliferation in HUVEC cells. The ED50 for this effect is < 5 µg/mL.
Molecular Mass	The protein has a calculated MW of 8.58 kDa. The protein migrates as 14 kDa under reducing condition (SDS-PAGE analysis).
Endotoxin	< 0.1 EU/µg of the protein by the LAL method.

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Purity	>98% as determined by SDS-PAGE analysis.
Storage	This product is stable after storage at: -20 centigrade for 12 months in lyophilized state from date of receipt. -20 or -80 centigrade for 1 month under sterile conditions after reconstitution. Avoid repeated freeze/thaw cycles.
Storage Buffer	Lyophilized from a 0.2 µm filtered solution of PBS, pH 7.4.
Reconstitution	It is recommended to reconstitute the lyophilized protein in sterile H2O to a concentration not less than 200 µg/mL and incubate the stock solution for at least 20 min to ensure sufficient re-dissolved.
Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at -20 centigrade or lower for long term storage.

GENE INFORMATION

Gene Name	PF4 platelet factor 4 [Homo sapiens (human)]
Official Symbol	PF4
Synonyms	PF4; platelet factor 4; chemokine (C X C motif) ligand 4; CXCL4; SCYB4; iroplact; oncostatin-A; C-X-C motif chemokine 4; chemokine (C-X-C motif) ligand 4; PF-4; MGC138298;
Gene ID	5196
mRNA Refseq	NM_002619
Protein Refseq	NP_002610

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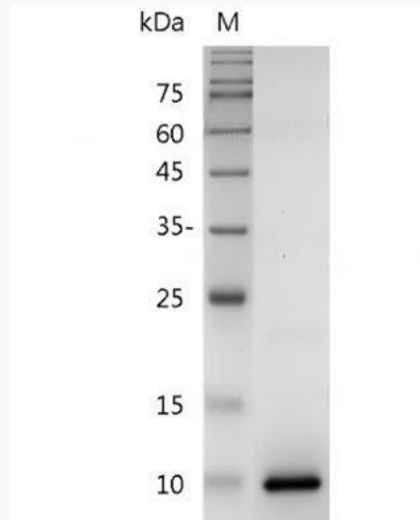
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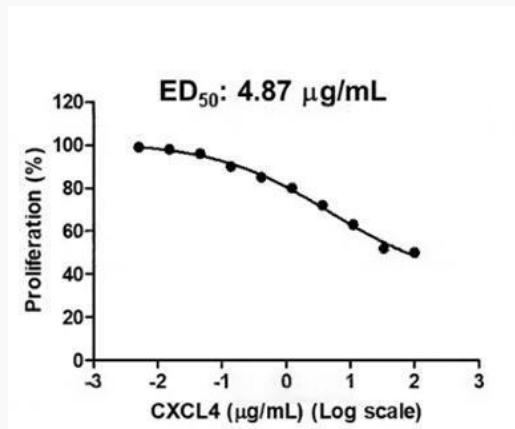
MIM 173460

UniProt ID P02776

**SDS-PAGE analysis
of recombinant
human CXCL4.**



Activity



Human CXCL4, His Tag, E. coli (LDG156PHE) inhibited human FGF-2-induced HUVEC cell proliferation, with the ED₅₀ at 4.87 µg/mL.

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