

# Human CXCL4 Protein

Cat. No. CXC-HM2L4

## Description

<b>Source</b>	Recombinant Human CXCL4 Protein is expressed from Expi293 with hFc tag at the C-terminal. It contains Glu32-Ser101.
<b>Accession</b>	P02776
<b>Molecular Weight</b>	The protein has a predicted MW of 34.5 kDa. Due to glycosylation, the protein migrates to 40-50 kDa based on Tris-Bis PAGE result.
<b>Endotoxin</b>	Less than 1EU per $\mu\text{g}$ by the LAL method.
<b>Purity</b>	> 95% as determined by Tris-Bis PAGE > 95% as determined by HPLC

## Formulation and Storage

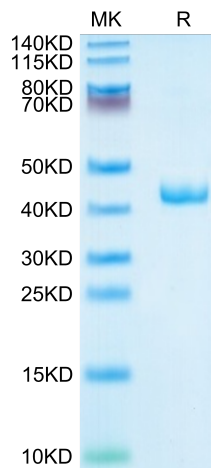
<b>Formulation</b>	Lyophilized from 0.22 $\mu\text{m}$ filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
<b>Reconstitution</b>	Centrifuge tubes before opening. Reconstituting to a concentration more than 100 $\mu\text{g}/\text{ml}$ is recommended. Dissolve the lyophilized protein in distilled water.
<b>Storage</b>	-20 to -80°C for 12 months as supplied from date of receipt. -20 to -80°C for 3-6 months in unopened state after reconstitution. 2-8°C for 2-7 days after reconstitution. Recommend to aliquot the protein into smaller quantities for optimal storage. Please avoid freeze-thaw cycles.

## Background

Chemokines regulate leukocyte migration during physiological and pathological conditions. It is currently accepted that these chemotactic cytokines are also important in the development and progression of cancer. CXCL4 and its non-allelic variant CXCL4L1 are two platelet-associated chemokines that have been attributed anti-tumoral activity as a result of their angiostatic potential and the chemotactic activity for anti-tumoral leukocytes.

## Assay Data

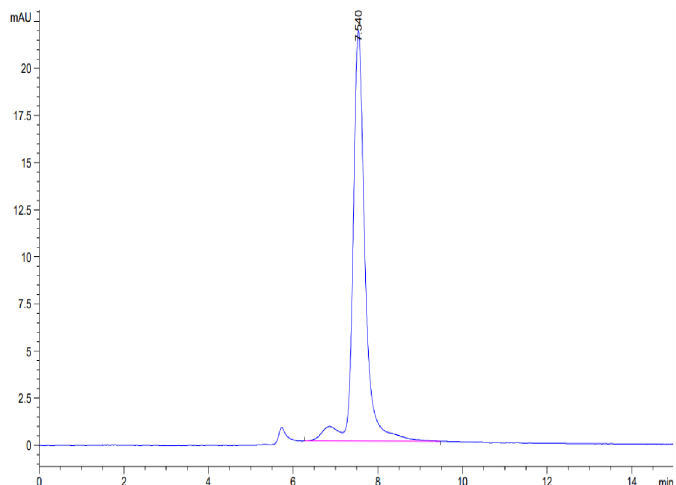
### Tris-Bis PAGE



Human CXCL4 on Tris-Bis PAGE under reduced condition. The purity is greater than 95%.

### SEC-HPLC

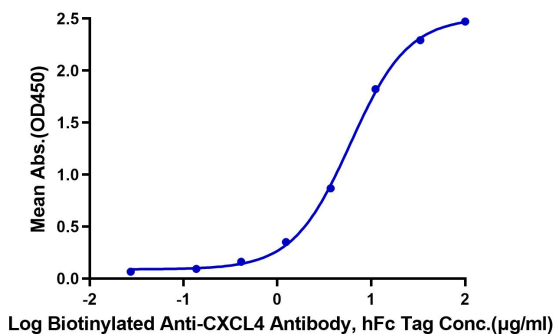
Assay Data



The purity of Human CXCL4 is greater than 95% as determined by SEC-HPLC.

ELISA Data

Human CXCL4, hFc Tag ELISA  
0.2µg Human CXCL4, hFc Tag Per Well



Immobilized Human CXCL4, hFc Tag at 2µg/ml (100µl/Well) on the plate. Dose response curve for Biotinylated Anti-CXCL4 Antibody, hFc Tag with the EC50 of 6µg/ml determined by ELISA.