

# Human CXCL13/BCA-1 Protein

Cat. No. CXC-HM213

## Description

<b>Source</b>	Recombinant Human CXCL13/BCA-1 Protein is expressed from HEK293 with hFc tag at the N-Terminus. It contains Val23-Per109.
<b>Accession</b>	O43927
<b>Molecular Weight</b>	The protein has a predicted MW of 37.6 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

## Formulation and Storage

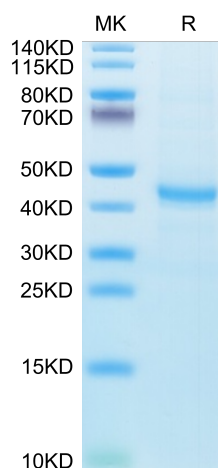
<b>Formulation</b>	Supplied as 0.22 $\mu\text{m}$ filtered solution in 50mM Tris,500mM NaCl (pH 7.4).
<b>Storage</b>	Valid for 12 months from date of receipt when stored at -80°C. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.

## Background

Recent studies have implicated chemokines in microglial activation and pathogenesis of neuropathic pain. C-X-C motif chemokine 13 (CXCL13) is a B lymphocyte chemoattractant that activates CXCR5. Using the spinal nerve ligation (SNL) model of neuropathic pain, CXCL13 was persistently upregulated in spinal cord neurons after SNL, resulting in spinal astrocyte activation via CXCR5 in mice.

## Assay Data

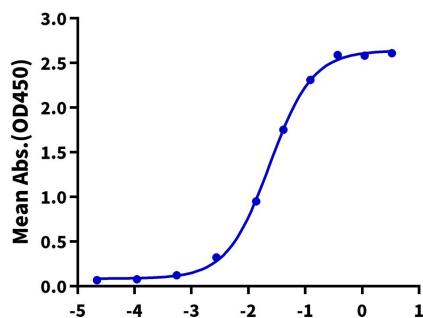
### Tris-Bis PAGE



Human CXCL13 on Tris-Bis PAGE under reduced condition. The purity is greater than 95%.

### ELISA Data

**Human CXCL13, hFc Tag ELISA**  
0.05 $\mu\text{g}$  Human CXCL13, hFc Tag Per Well



Immobilized Human CXCL13, hFc Tag at 0.5 $\mu\text{g}/\text{ml}$  (100 $\mu\text{l}$ /well) on the plate. Dose response curve for Biotinylated Anti-CXCL13 Antibody, hFc Tag with the EC50 of 23.8ng/ml determined by ELISA.