# Cynomolgus CXCL13 / BCA-1 / BLC Protein (His Tag)

**Catalog Number:** **90021-C07E**

Sino Biological
Biological Solution Specialist

## General Information

**Gene Name Synonym:**

CXCL13

**Protein Construction:**

A DNA sequence encoding the mature form of Cynomolgus (Macaca fascicularis) CXCL13 (Val 23-Pro 109) was expressed, with an N-terminal polyhistidine tag.

**Source:** Cynomolgus

**Expression Host:** E. coli

## QC Testing

**Purity:** > 90 % as determined by SDS-PAGE

**Endotoxin:**

Please contact us for more information.

**Stability:**

Samples are stable for up to twelve months from date of receipt at -70 ℃

**Predicted N terminal:** His

**Molecular Mass:**

The recombinant cynomolgus CXCL13 consists of 103 amino acids and has a calculated molecular mass of 12.4 kDa. The apparent molecular mass of the recombinant protein is approximately 14 kDa in SDS-PAGE under reducing conditions due to glycosylation.

**Formulation:**

Lyophilized from sterile 10mM Tris, 250mM NaCl, pH 8.0

Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Specific concentrations are included in the hardcopy of COA. Please contact us for any concerns or special requirements.

## Usage Guide

**Storage:**

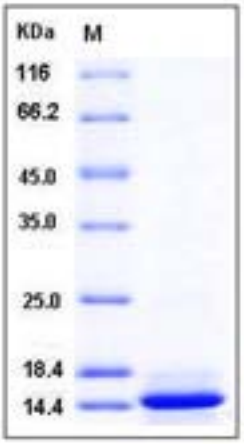
Store it under sterile conditions at -20℃ to -80℃ upon receiving. Recommend to aliquot the protein into smaller quantities for optimal storage.

**Avoid repeated freeze-thaw cycles.**

**Reconstitution:**

Detailed reconstitution instructions are sent along with the products.

**SDS-PAGE:**




## Protein Description

The chemokine CXCL13, also known as BCA-1 (B-cell-attracting chemokine-1) or BLC (B-lymphocyte chemoattractant), which belongs to the CXC chemokine family. CXCL13 and its receptor CXCR5 control the organization of B cells within follicles of lymphoid tissues. CXCL13 is known to dictate homing and motility of B cells in lymphoid tissue and has been implicated in the formation of ectopic lymphoid tissue in chronic inflammation. It involves in B-cell compartmental homing within secondary lymphoid organs and recently implicated in the pathogenesis of inflammatory and malignant lymphocyte-mediated diseases. In Primary central nervous system lymphoma (PCNSL), expression of BCA-1 by malignant lymphocytes and vascular endothelium may influence tumor development and localization to central nervous system (CNS). In T-lymphocytes, CXCL13 expression is thought to reflect a germinal center origin of the T-cell. CXCL13 expression may also provide an additional useful tool for the diagnosis of Angioimmunoblastic T-cell lymphoma (AITL).

**References**

1.Ansel KM, *et al.* (2000) A chemokine-driven positive feedback loop organizes lymphoid follicles. Nature. 406 (6793): 309-14. 2.Smith JR, *et al.* (2003) Expression of B-cell-attracting chemokine 1 (CXCL13) by malignant lymphocytes and vascular endothelium in primary central nervous system lymphoma. Blood. 101(3): 815-21. 3.Dupuis J, *et al.* (2006) Expression of CXCL13 by neoplastic cells in angioimmunoblastic T-cell lymphoma (AITL): a new diagnostic marker providing evidence that AITL derives from follicular helper T cells. Am J Surg Pathol. 30(4): 490-4.