

# BCA-1 Human

*BCA-1/BLC Human Recombinant (CXCL13)*  
CHK0001

## Product Overview

Name BCA-1 Human

### Description

BCA-1/BLC Human Recombinant (CXCL13)

Accession (Primary) [O43927](#)

### Synonyms

C-X-C motif chemokine 13, Small-inducible cytokine B13, B lymphocyte chemoattractant, CXC chemokine BLC, CXCL13, BCA1, BCA-1, CXCL-13, B cell Attracting Chemokine-1, BLC, ANGIE, BLR1L, SCYB13, ANGIE2.

### Introduction

BCA-1 is a CXC chemokine that is highly expressed in these secondary lymphoid organs, such as follicles of the spleen, lymph nodes, and Peyer's patches. CXCL13 promotes the migration of B lymphocytes (compared to T cells and macrophages), by stimulating calcium influx into, and chemotaxis of, cells expressing Burkitt's lymphoma receptor 1 (BLR1). BCA1 therefore function in the homing of B lymphocytes to follicles. Human BCA-1 shares a 64% amino acid sequence similarity with the mouse protein and 23 - 34% amino acid sequence identity with other known CXC chemokines. Recombinant or chemically synthesized BCA1 is a potent chemoattractant for B lymphocytes but not T lymphocytes, monocytes or neutrophils. BLR1, a G protein-coupled receptor originally isolated from Burkitt's lymphoma cells, has now been shown to be the specific receptor for BCA1. Among cells of the hematopoietic lineages, the expression of BLR-1, now designated CXCR-5, is restricted to B lymphocytes and a subpopulation of T helper memory cells.

### Source

Escherichia Coli.

### Physical Appearance

Sterile Filtered colorless solution.

### Formulation

BCA 1 protein solution (0.25mg/ml) containing 20mM Tris-HCl buffer (pH8.0), 0.4M Urea and 10% glycerol.

### Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

### Purity

Greater than 85.0% as determined by SDS-PAGE.

#### Amino acid sequence

MGSSHHHHHH SSGLVPRGSH MGS VLEVYYT SLRCRCVQES SVFIPRRFID RIQILPRGNG CPRKEIIVWK  
KNKSIVCVDP QAEWIQRMME VLRKRSSSTL PVPVFKRKIP.

#### Precautions

BCA-1 Human is for research use only and not for use in diagnostic or therapeutic procedures.

**Target Information: ( [O43927](#) )**