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## 32-1853: BCA 1 Recombinant Protein

**Alternative** Name:

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.

## **Description**

Source: Escherichia Coli. CXCL13 Human Recombinant produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 87 amino acids and having a molecular mass of 10.3 kDa. The BCA-1 is purified by proprietary chromatographic techniques. BCA-1 is a CXC chemokine that is highly expressed in thesecondary 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.

## **Product Info**

Amount: 20 μg

**Purification:** Greater than 97.0% as determined by:(a) Analysis by RP-HPLC.(b) Analysis by SDS-PAGE.

The BCA-1 protein was lyophilized from a concentrated (0.5mg/ml) solution containing 20mM Content:

PBS & 150mM NaCl pH-7.4.

Lyophilized BCA1 although stable at room temperature for 3 weeks, should be stored desiccated

below -18°C. Upon reconstitution BCA1 should be stored at 4°C between 2-7 days and for future Storage condition:

use below -18°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or

BSA). Please prevent freeze-thaw cycles.

VLEVYYTSLRCRCVQESSVFIPRRFIDRIQILPRGNG CPRKEIIVWKKNKSIVCVDPQAEWIQRMMEVLRKR Amino Acid:

SSSTLPVPVFKRKIP.

## **Application Note**

It is recommended to reconstitute the lyophilized CXCL13 in sterile 18M̸Â⊚-cm H2O not less than 100Ã∏µg/ml, which can then be further diluted to other aqueous solutions. Determined by its ability to chemoattract human B cells using a concentration range of 1-10ng/ml corresponding to a Specific Activity of 100,000-1,000,000IU/mg.

