

32-1854: BCA 1, His 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. BCA 1 Human Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain topological domain containing 110 amino acids (23-109 a.a) and having a molecular mass of 12.7kDa. BCA 1 is fused to a 23 amino acid His-tag at N-terminus. 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.

Product Info

Amount : 20 µg
Purification : Greater than 85.0% as determined by SDS-PAGE.
Content : BCA 1 protein solution (0.25mg/ml) containing 20mM Tris-HCl buffer (pH8.0), 0.4M Urea and 10% glycerol.
Storage condition : CCL3L1 should be stored desiccated 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.
Amino Acid : MGSSHHHHH SSGLVPRGSH MGSVLEVYYT SLRCRCVQES SVFIPRRFID RIQILPRGNG CPRKEIIVWK KNKSIVCVDP QAEWIQRMM E VLRKRSSSTL PVPVFKRKIP.