
Product Data Sheet

Product Name: BCA-1 Human, His
 Cat. No.: GP21067
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
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.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH MGSVLEVYYT SLRCRCVQES SVFIPRRFID RIQILPRGNG CPRKEIIVWK KNKSIVCVDP QAEWIQRMME VLRKRSSSTL PVPVFKRKIP.		
Formulation	BCA 1 protein solution (0.25mg/ml) containing 20mM Tris-HCl buffer (pH8.0), 0.4M Urea and 10% glycerol.		

Introduction

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.

Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store. frozen at -20°C for longer

Caution: Product has not been fully validated for medical applications. For research use only.

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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.

Background

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.

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