

Recombinant Human BCA-1/CXCL13 (Human BCA-1/CXCL13)

Product Information

Product Name	Cat#	Size
	90917ES08	5 µg
Recombinant Human BCA-1/CXCL13 (Human BCA-1/CXCL13)	90917ES60	100 µg
	90917ES76	500 µg

Product Description

The homeostatic chemokine CXCL13 (also called B cell-attracting chemokine 1 [BCA-1] or B-lymphocyte chemoattractant [BLC]) is constitutively expressed in secondary lymphoid tissue and initiates lymphoid neogenesis when expressed aberrantly. Recombinant human CXCL13 is a single non-glycosylated polypeptide chain containing 87 amino acids and mature human BCA-1 shares 64% amino acid sequence similarity with the mouse protein and 23-34% amino acid sequence identity with other known CXC chemokines. CXCL13 is a homeostatic chemokine for lymphocyte homing and positioning within follicles of secondary lymphoid tissues, acting through its cognate receptor, CXCR5. Besides, CXCL13 is a potent chemokine, produced by mature and recently recruited macrophages to sites of inflammation, which has antimicrobial and anti-angiogenic properties.

Product Properties

Synonyms	Angie, B lymphocyte chemoattractant, BCA1, CXC chemokine BLC, Small-inducible cytokine B13, SCYB13
Accession	O43927
GeneID	10563
Source	E.coli-derived Human BCA-1/CXCL13, Val23-Pro109.
Molecular Weight	Approximately 10.3 kDa.
AA Sequence	VLEVYYTSLR CRCVQESSVF IPRRFIDRIQ ILPRGNGCPR KEIIVWKKNK SIVCVDPQAE WIQRMMEVLR KRSSSTLPVP VFKRKIP
Tag	None
Physical Appearance	Sterile Filtered White lyophilized (freeze-dried) powder.
Purity	> 97% by SDS-PAGE and HPLC analyses.
Biological Activity	The biological activity determined by a chemotaxis bioassay using human B cells is in a concentration range of 1.0-10 ng/mL. Fully biologically active when compared to standard.
Endotoxin	< 1.0 EU per 1µg of the protein by the LAL method.
Formulation	Lyophilized from a 0.2 µm filtered concentrated solution in 20 mM PB, pH 7.4, 100 mM NaCl. We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom.
Reconstitution	Reconstitute in sterile distilled water or aqueous buffer containing 0.1% BSA to a concentration of 0.1-1.0 mg/mL. Stock solutions should be apportioned into working aliquots and stored at ≤ -20°C. Further dilutions should be made in appropriate buffered solutions.

Shipping and Storage

The products are shipped with ice pack and can be stored at -20°C to -80°C for 1 year.

Recommend to aliquot the protein into smaller quantities when first used and avoid repeated freeze-thaw cycles.

Cautions

1. Avoid repeated freeze-thaw cycles.
2. For your safety and health, please wear lab coats and disposable gloves for operation.
3. For research use only!