

Recombinant Human BCA-1/CXCL13

#R00369

Size: 5 µg/100 µg/500 µg

Stability & Storage

Use a manual defrost freezer and avoid repeated freeze-thaw cycles.

- 12 months from date of receipt, -20 to -70 °C as supplied.
- 1 month, 2 to 8 °C under sterile conditions after reconstitution.
- 3 months, -20 to -70 °C under sterile conditions after reconstitution.



Warning: This product is intended for scientific research only. It is not to be used for medical or diagnostic procedures in humans or animals, nor as a food, cosmetic, or household product.

Background

C-X-C motif chemokine 13 encoded by the CXCL13 gene located on human chromosome 4 is constitutively expressed in secondary lymphoid organs. It is also known as B lymphocyte chemoattractant (BLC). As its name suggests, CXCL13 is selectively chemotactic for B cells belonging to both the B-1 and B-2 subsets, and elicits its effects by interacting with chemokine receptor CXCR5. It and its receptor CXCR5 control the organization of B cells within follicles of lymphoid tissues. 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 murine protein and 23–34 % amino acid sequence identity with other known CXC chemokines.

AA Sequence

VLEVYYTSLRCRCVQESSVFIPRRFIDRIQILPRGNGC

PRKEIIVWKKNKSIVCVDPQAEWQIRMMEVLRKRSSS
TLPVPVFKRKIP

Reconstitution

We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. 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.

Product Specification

Synonyms	Angie, B lymphocyte chemoattractant, CXC chemokine BLC, Small-inducible cytokine B13
Accession	O43927
GeneID	10563
Species	Human
Source	Escherichia coli.
Molecular Weight	Approximately 10.3 kDa, a single non-glycosylated polypeptide chain containing 87 amino acids.
Purity	> 97 % by SDS-PAGE and HPLC analyses.
Biological Activity	Fully biologically active when compared to standard. The biological activity determined by a chemotaxis bioassay using human B cells is in a

	concentration range of 1.0-10 ng/ml.
Physical	Sterile Filtered White lyophilized
Appearance	(freeze-dried) powder.
Formulation	Lyophilized from a 0.2 µm filtered concentrated solution in 20 mM PB, pH 7.4, 100 mM NaCl.
Endotoxin	Less than 1 EU/µg of rHuBCA-1/CXCL13 as determined by LAL method.
