

BACKGROUND

B-cell Attracting Chemokine-1 (BCA-1), also known as CXCL13, is expressed at high levels in lymphoid tissues such as the spleen, lymph nodes and Peyer's patches. It has been shown to activate signaling through the receptor BLR1 (Burkitt's lymphoma receptor 1) to chemoattract B cells.

Recombinant human BCA-1 is a non-glycosylated protein, containing 87 amino acids and having a total molecular mass of 10.3 kDa.

Alternative Names:

CXCL13, BLC, BLR1 Ligand

Amino Acid Sequence:

VLEVYYTSLR CRVQESSVF IPRRFIDRIQ ILPRGNGCPR
KEIIVWKKNK SIVCVDPQAE WIQRMMEVLR KRSSTLPVP
VFKRKIP

TECHNICAL INFORMATION

Source: *E.coli*

Physical Appearance:

Sterile Filtered white lyophilized (freeze-dried) powder.

Formulation:

Recombinant human BCA-1 is lyophilized from 0.02% TFA.

Stability:

Lyophilized product is very stable at -20°C. Reconstituted material should be aliquoted and frozen at -20°C. It is recommended that a carrier protein (0.1% HSA or BSA) is added for long term storage.

Reconstitution:

Centrifuge vial before opening. When reconstituting the product, gently pipet and wash down the sides of the vial to ensure full recovery of the protein into solution. It is recommended to reconstitute the lyophilized product with sterile water at a concentration of 0.1 mg/ml, which can be further diluted into other aqueous solutions.

Protein Content and Purity determined by:

- UV spectroscopy at 280 nm
- RP-HPLC calibrated against a known standard
- Quantitation against a known standard via reducing and non-reducing SDS-PAGE gels.

Endotoxin Level:

Endotoxin level, as measured by LAL analysis, is <0.01ng/ug or <0.1EU/ug.

Biological Activity:

The activity is determined by its ability to chemoattract BaF3 cells transfected with CXCR5 and is typically 5-20 ng/mL.

Products are for research use only. They are not intended for human, animal, or diagnostic applications.

