



Recombinant Human BCA-1 / CXCL13
(Beta-cell Attracting Chemokine 1)

Catalog Number: 100-27
Accession Number: Q53X90

Specifications and Uses:

Alternate Names: CXCL13, BLC, BLR1 Ligand

Description:

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, with a molecular weight of 10.3 kDa.

Source: *E.coli*

Physical Appearance: Sterile filtered white lyophilized (freeze-dried) powder.

Formulation and Stability:

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

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 (typically $\geq 97\%$) determined by:

HPLC, Reducing and Non-reducing SDS-PAGE, UV spectroscopy at 280 nm

Endotoxin Level:

Measured by kinetic LAL analysis and is typically ≤ 1 EU/ μ g protein.

Biological Activity:

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

AA Sequence:

VLEVYYTSLR CRVQESSVF IPRRFIDRIQ ILPRGNGCPR KEIIVWKKNK SIVCVDPQAE WIQRMMEVLR
KRSSSTLPVP VFKRKIP

THIS PRODUCT IS FOR RESEARCH USE ONLY AND IS NOT FOR USE IN HUMANS!

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