DATA SHEET

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GFH27 Recombinant Human BCA-1 / CXCL13

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. BCA-1 activates signaling through the receptor Burkitt lymphoma receptor 1 (BLR1) to chemoattract B cells.

Length	86 aa
Molecular Weight	10.2 kDa
Source	E. coli
Accession Number	Q53X90
Purity	≥95% determined by reducing and non-reducing SDS-PAGE

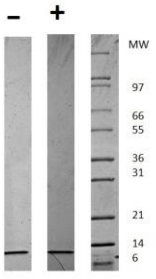
Specifications

Alternative Names	B cell-attracting chemokine 1, B-cell-attracting chemokine 1, BCA1, BLC B cell-attracting chemokine 1, BLC, BLR1 Ligand, chemokine (C-X-C motif) ligand 13, CXCL13, small-inducible cytokine B13, small inducible cytokine B subfamily (Cys-X-Cys motif), CXC chemokine BLC, SCYB13, C-X-C motif chemokine 13, chemokine (C-X-C motif) ligand 13 (B-cell chemoattractant), B-cell chemoattractant, B-lymphocyte chemoattractant, B lymphocyte chemoattractant, ANGIE, ANGIE2, B-cell-homing chemokine (ligand for Burkitt's lymphoma receptor-1), BLR1L
Biological Activity	Human BCA-1 is fully biologically active when compared to standards. The activity can be determined by its ability to chemoattract BaF3 cells transfected with CXCR5 and it is typically 5-20 ng/ml. This corresponds to the specific activity of 6.7 x 10^4 units/mg.
Endotoxin Level	≤1.00 EU/µg as measured by kinetic LAL
Formulation	Lyophilized from a sterile (0.2 micron) filtered aqueous solution containing 10 mM sodium phosphate, pH 7.6
AA Sequence	VLEVYYTSLR CRVQESSVFI PRRFIDRIQI LPRGNGCPRK EIIVWKKNKS IVCVDPQAEW IQRMMEVLRK RSSSTLPVPV FKRKIP

Preparation and 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 0.1 mg/ml, which can be further diluted into other aqueous solutions.
Stability and Storage	12 months from date of receipt when stored at -20°C to -80°C as supplied. 1 month when stored at 4°C after reconstituting as directed. 3 months when stored at -20°C to -80°C after reconstituting as directed.

Data



Non-reducing (-) and reducing (+) conditions in a 4 - 20% Tris-Glycine gel stained with Coomassie Blue. 1 µg of protein was loaded in each lane. Human BCA-1 has a predicted Mw of 10.2 kDa.