

ChemWhat Technical Data Sheet (TDS)

Catalog Number:	201-13
Source:	<i>Escherichia coli</i> .
Molecular Weight:	Approximately 10.3 kDa, a single non-glycosylated polypeptide chain containing 87 amino acids.
Quantity:	5µg/20µg/1000µg
AA Sequence:	VLEVYYTSLR CRCVQESSVF IPRRFIDRIQ ILPRGNGCPR KEIIVWKKNK SIVCVDPQAE WIQRMMEVLR KRSSSTLPVP VFKRKIP
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 Appearance:	Sterile Filtered White lyophilized (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.
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.
Shipping:	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage:	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. <ul style="list-style-type: none">● 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.
Usage:	ChemWhat Limited in UK offers this branded product for research, development or further evaluation purposes. NOT FOR HUMAN USE.

Human BCA-1/ CXCL13

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.