

## Animal-Free BCA-1/CXCL13 Protein, Human (His)

<b>Cat. No.:</b>	HY-P700044AF
<b>Synonyms:</b>	BCA-1/CXCL13; C-X-C motif chemokine 13; BCA1; BLC; SCYB13
<b>Species:</b>	Human
<b>Source:</b>	E. coli
<b>Accession:</b>	O43927 (V23-R94)
<b>Gene ID:</b>	10563
<b>Molecular Weight:</b>	Approximately 9.49 kDa

### PROPERTIES

<b>AA Sequence</b>	V L E V Y Y T S L R    C R C V Q E S S V F    I P R R F I D R I Q    I L P R G N G C P R K E I I V W K K N K    S I V C V D P Q A E    W I Q R M M E V L R    K R
<b>Biological Activity</b>	Measure by its ability to chemoattract BaF3 cells transfected with human CXCR5. The ED <sub>50</sub> for this effect is <20 ng/mL.
<b>Appearance</b>	Lyophilized powder.
<b>Formulation</b>	Lyophilized from a solution containing 1X PBS, pH 7.4.
<b>Endotoxin Level</b>	<0.1 EU per 1 µg of the protein by the LAL method.
<b>Reconstitution</b>	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH <sub>2</sub> O.
<b>Storage &amp; Stability</b>	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
<b>Shipping</b>	Room temperature in continental US; may vary elsewhere.

### DESCRIPTION

<b>Background</b>	The BCA-1/CXCL13 protein acts as a selective chemotactic factor for B-lymphocytes, distinguishing its effects from T-lymphocytes, monocytes, and neutrophils. Unlike other chemokines, it does not induce calcium release in B-lymphocytes. Its specificity for B-lymphocytes is evidenced by its binding to BLR1/CXCR5, emphasizing its role in orchestrating B-cell migration. This selectivity in chemotactic function and receptor binding positions BCA-1/CXCL13 as a key regulator in the immune system, contributing to the precise recruitment and activation of B-lymphocytes within the cellular microenvironment.
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**Caution: Product has not been fully validated for medical applications. For research use only.**

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: [tech@MedChemExpress.com](mailto:tech@MedChemExpress.com)

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA