Recombinant Human BCA-1 (CXCL13)

Cat No:HR2R1171

For research use only

Overview

Quantity	20 ?g
Gene Symbol	CXCL13
Gene ID	10563
Accession	O43927
Alternative Name	BCA1, BLC, B cell Attracting Chemokine-1, CXCL13, C-X-C motif chemokine 13
Species	Human
Source	E. coli
Description	The homeostatic chemokine CXCL13 is constitutively expressed in secondary lymphoid tissue and known to initiate lymphoid neogenesis when expressed aberrantly in mice. CXCL13 has also been detected in chronic inflammation associated with human lymphoid neogenesis, suggesting a pathogenic role. Follicular dendritic cells are generally considered to be the major source of CXCL13 both in normal and aberrant lymphoid tissue. CXCL13 has been the exclusive ligand for CXCR5, which initiates chemotaxis toward an increasing gradient in vitro and to B cell zones in lymph nodes that express CXCL13. More recently, CXCR5 expression has also been shown in DN T cells in mice, a subset of CD4 follicular Th cells, and some tonsillar CD4+ and CD25+ Tregs in humans.
Functions	Determined by its ability to chemoattract human CXCR5 transfected mouse BaF3 B cells, the ED(50) is less than 20 ng/mL
Formulation	Lyophilized from a 0.2 ?m filtered solution in PB,100 mM NaCl, pH 7.5
Solubility	A quick spin of the vial followed by reconstitution in distilled water to a concentration not less than 0.1 mg/mL. This solution can then be diluted into other buffers.
Appearance	Lyophilized Powder
Molecular Weight	10
Purity	>95% as determined by SDS-PAGE
Concentration	<1.0 EU/?g of recombinant protein as determined by the LAL method
Shipping Condition	Ambient Temperature
Storage Condition	The lyophilized protein is stable for at least one year from date of receipt at -70?C. Upon reconstitution, this cytokine can be stored in working aliquots at 2? - 8?C for one month, or at -20?C for six months, with a carrier protein without detectable loss of activity. Avoid repeated freeze/thaw cycles.