Growth Factor Data Sheet

GoldBio growth factors are manufactured for RESEARCH USE ONLY and cannot be sold for human consumption!

CXCL10 is a CXC chemokine lacking the ELR motif. It is closely related to CXCL9 and CXCL11, all three of which are ligands for CXCLR3. CXCL10 is expressed in and secreted by monocytes, endothelial cells, fibroblasts, and other cell types after induction by IFNG. CXCL10 is chemotactic for monocytes and T-cell lymphocytes. It plays a role in angiostasis, inhibits bone marrow colony formation, and promotes T-cell adhesion to endothelial cells. CXCL10 also exhibits antimicrobial properties against Gram-positive and Gram-negative bacteria. Knock-out mice have immune system abnormalities, including defective proliferation of T–cells, resulting in increased susceptibility to autoimmune disease and viral infections. Increased expression of CXCL10 and CXCR3 is associated with autoimmune myasthenia gravis.

Catalog Number **Product Name**	**2310-10** **CXCL10, Murine** Recombinant Murine Chemokine (C-X-C motif) Ligand 10 (CXCL10) Cytokine Responsive Gene 2 (CRG2) Small Inducible Cytokine Subfamily B Member 10 (SCYB10) Interferon Gamma Inducible Protein 10, (IP10, INP10)
Source	*Escherichia coli*
MW	~8.7 kDa (77 amino acids)
Sequence	IPLARTVRCN CIHIDDGPVR MRAIGKLEII PASLSCPRVE IIATMKKNDE QRCLNPESKT IKNLMKAFSQ KRSKRAP
Accession Number	P17515
Purity	>97% by SDS-PAGE and HPLC analyses
Biological Activity	Fully biologically active when compared to standard. The biologically active determined by a chemotaxis bioassay using human peripheral blood lymphocytes is in a concentration range of 0.1-10.0 ng/ml in the presence of IL-2.
Formulation	Sterile filtered white lyophilized powder. Purified and tested for use in cell culture.
Storage/Handling	This lyophilized preparation is stable at 2-8°C, but should be kept at -20°C for long term storage. The reconstituted sample can be apportioned into working aliquots and stored at -80 °C for up to 6 months. Avoid repeated freeze/thaw cycles.
Reconstitution	The sample should be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute in a siliconized tube using PBS that contains a 0.1% BSA to a concentration of 0.1-1.0 mg/mL. Reconstituted solutions are stable for up to one week at 2-8°C. Stock solutions should be aliquoted and stored at -80°C. Further dilutions should be made in appropriate buffered solutions containing BSA or serum.