

Growth Factor Data Sheet

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

Catalog Number	2510-10
Product Name	CXCL10, Rat Recombinant Rat 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) Mob1, Mob-1
Source	<i>Escherichia coli</i>
MW	~8.7 kDa (77 amino acids)
Sequence	IPLARTVRCT CIDFHEQPLR PRAIGKLEII PASLSCPHVE IIATMKKNNE KRCLNPESEA IKSLLKAVSQ RRSKRAP
Accession Number	P48973
Purity	>95% 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 CXCR3 transfected HEK293 cells is in a concentration range of 10-50 ng/ml.
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.