

Recombinant Human CXCL10 protein

Cat. No. CXCL10-08H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human CXCL10 protein was expressed in Escherichia coli.
Species	Human
Source	E.coli
ProteinLength	22-98 aa
Description	CXCL10 also known as IP-10 is belonging to the CXC chemokine family. It is encoded by the CXCL10 gene. CXCL10 was originally identified in monocytes, endothelial cells and fibroblasts as a responder to IFN- γ . This chemokine elicits its effects by binding to the cell surface chemokine receptor CXCR3. CXCL10 has been shown to be a chemoattractant for activated T-lymphocytes and monocytes/macrophages. It also has other roles, such as promotion of T cell adhesion to endothelial cells, and inhibition of bone marrow colony formation and angiogenesis. The mouse homologue of human IP-10, Crg-2, has been cloned and shown to share approximately 67 % amino acid sequence identity with human IP-10.
Form	Lyophilized from a 0.2 μ m filtered concentrated solution in 20 mM PB, pH 7.4, 50 mM NaCl.
Bio-activity	Fully biologically active when compared to standard. The biological activity determined by a chemotaxis bioassay using human peripheral blood T-lymphocytes is in a concentration range of 10-50 ng/ml.

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Molecular Mass	Approximately 8.6 kDa, a single non-glycosylated polypeptide chain containing 77 amino acids.
AA Sequence	VPLSRTVRCTCISISNQPVNPRSLEKLEIIPASQFCPRVEIIATMKKKGEKRCLNPESK AIKNLLKAVSKEMSKRSP
Endotoxin	Less than 1 EU/g of rHuIP-10/CXCL10 as determined by LAL method.
Purity	>97% by SDS-PAGE and HPLC analysis.
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 12 months from date of receipt, -20 to -70 centigrade as supplied. 1 month, 2 to 8 centigrade under sterile conditions after reconstitution. 3 months, -20 to -70 centigrade under sterile conditions after reconstitution.
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 centigrade. Further dilutions should be made in appropriate buffered solutions.

GENE INFORMATION

Gene Name	CXCL10
Official Symbol	CXCL10
Synonyms	CXCL10; chemokine (C-X-C motif) ligand 10; INP10, SCYB10, small inducible cytokine subfamily B (Cys X Cys), member 10; C-X-C motif chemokine 10; C7; crg 2; gIP 10; IFI10; IP 10; mob 1; gamma IP10; gamma-IP10; small-inducible cytokine B10; interferon-inducible cytokine IP-10; 10 kDa interferon gamma-induced protein; protein

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10 from interferon (gamma)-induced cell line; small inducible cytokine subfamily B (Cys-X-Cys), member 10; INP10; IP-10; crg-2; mob-1; SCYB10; gIP-10;

Gene ID 3627

mRNA Refseq NM_001565

Protein Refseq NP_001556

MIM 147310

UniProt ID P02778

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