

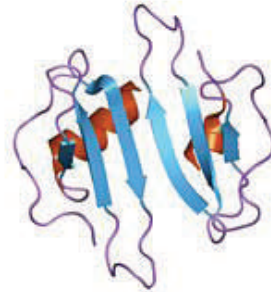
Chemokine (C-X-C motif) ligand 10

Human, Recombinant (rHuIP-10/CXCL10)

Expressed in *E. coli*

Cat. No. CRP08112

Lot. No. (See product label)



PDB rendering based on 1o7z.

Available structures: [1lv9](#), [1o7y](#), [1o7z](#), [1o80](#)

PRODUCT INFORMATION

Description: IP-10 was originally identified as an IFN- γ -inducible gene in monocytes, fibroblasts and endothelial cells. It has since been shown that IP-10 mRNA is also induced by LPS, IL-1 β , TNF- α , IL-12 and viruses. Additional cell types that have been shown to express IP-10 include activated T-lymphocytes, splenocytes, keratinocytes, osteoblasts, astrocytes, and smooth muscle cells. IP-10 is also expressed in psoriatic and lepromatous lesions of skin. 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.

Amino-Acid Sequence: 77aa, non-glycosylated

M. W. : 8.5 kDa

Recombinant: Expressed in *E. coli*

Purity: >97% by SDS-PAGE and HPLC analyses.

Formulation: Lyophilized from a 0.2 μ m filtered concentrated (0.5mg/ml) solution in 20mM PB, pH 7.4, 50mM NaCl

Endotoxin: Less than 1EU/ μ g of rHuIP-10/CXCL10 as determined by LAL method.

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°C. Further dilutions should be made in appropriate buffered solutions.

Storage: This lyophilized preparation is stable for several weeks at 2-8°C, but should be kept at -20°C for long term storage, preferably desiccated. Upon reconstitution, the preparation is stable for up to one week at 2-8°C. For maximal stability, apportion the reconstituted preparation into working aliquots and store at -20°C to -70°C. Avoid repeated freeze/thaw cycles.

FOR RESEARCH USE ONLY

GENE INFORMATION

Gene Name: [CXCL10](#)

Synonyms: C7; IFI10; INP10; IP-10; crg-2; CXL10_HUMAN ; mob-1; SCYB10; gIP-10; Gamma-IP10 ; 10 kDa interferon-gamma-induced protein; C-X-C motif chemokine 10 precursor; Small-inducible cytokine B10; chemokine (C-X-C motif) ligand 10; gamma IP10; interferon (gamma)-induced cell line; protein 10 from; interferon-inducible cytokine IP-10; protein 10 from interferon (gamma)-induced cell line; small inducible cytokine B10; small inducible cytokine subfamily B (Cys-X-Cys), member 10.

UniProt ID: P02778

mRNA Refseq: [NM_001565](#)

Protein Refseq: [NP_001556](#)

MIM: [147310](#)

GeneID: [3627](#)

Chromosome Location: 4q21

Pathway: Cytokine-cytokine receptor interaction; Toll-like receptor signaling pathway

Function: cAMP-dependent protein kinase regulator activity; chemokine activity

REFERENCES

1. Dufour et al. IFN-gamma-inducible protein 10 (IP-10; CXCL10) -deficient mice reveal a role for IP-10 in effector T cell generation and trafficking. *J. Immun.* 168:, 2002.
2. Angiolillo et al. Human interferon-inducible protein 10 is a potent inhibitor of angiogenesis *in vivo*. *J. Exp. Med.* 182: 155-162, 1995.
3. O'Donovan et al. Physical mapping of the CXC chemokine locus on human chromosome 4. *Cytogenet. Cell Genet.* 84: 39-42, 1999.

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