

## Recombinant Human CXCL10 (IP-10)

Cat. No. CXCL10-70H Lot. No. (See product label)

### SPECIFICATION

**Product Overview** Human IP-10/CXCL10 was produced in yeast and therefore does not have endotoxin, is naturally folded, and post-translationally modified.

**Species** Human

**Source** Yeast

**Description** C-X-C motif chemokine 10 (CXCL10) also known as Interferon gamma-induced protein 10 (IP-10) or small-inducible cytokine B10 is a member of the C-X-C chemokine family. CXCL10 (IP-10) is secreted by several cell types in response to IFN-gamma. These cell types include monocytes, endothelial cells and fibroblasts. CXCL10 (IP-10) has been attributed to several roles, such as chemoattraction for monocytes/macrophages, T cells, NK cells, and dendritic cells, promotion of T cell adhesion to endothelial cells, antitumor activity, and inhibition of bone marrow colony formation and angiogenesis. There have been 17 different C-X-C chemokines described in mammals, that are subdivided into two categories, those with a specific amino acid sequence (or motif) of glutamic acid-leucine-arginine (or ELR for short) immediately before the first cysteine of the C-X-C motif (ELR-positive), and those without an ELR motif (ELR-negative). ELR-positive C-X-C chemokines specifically induce the migration of neutrophils, and interact with chemokine receptors CXCR1 and CXCR2. C-X-C chemokines that lack the ELR motif are chemoattractant for lymphocytes. CXCL10 (IP-10) elicits its effects by binding to the cell surface chemokine receptor CXCR3.

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<b>Form</b>	Lyophilized
<b>Molecular Mass</b>	8.6 kDa
<b>AA Sequence</b>	VPLSRTVRCT CISISNQPVN PRSLEKLEII PASQFCPRVE IIATMKKKGE KRCLNPESKA IKNLLKAVSK ERSKRSP (77)
<b>Applications</b>	The Human IP-10/CXCL10 protein can be used in cell culture, as an IP-10/CXCL10 ELISA Standard, and as a Western Blot Control.
<b>Storage</b>	-20 C
<b>GENE INFORMATION</b>	
<b>Gene Name</b>	CXCL10 chemokine (C-X-C motif) ligand 10 [ Homo sapiens ]
<b>Official Symbol</b>	CXCL10
<b>Synonyms</b>	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 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;
<b>Gene ID</b>	<a href="#">3627</a>
<b>mRNA Refseq</b>	<a href="#">NM_001565</a>
<b>Protein Refseq</b>	<a href="#">NP_001556</a>

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<b>MIM</b>	147310
<b>UniProt ID</b>	P02778
<b>Chromosome Location</b>	4q21
<b>Pathway</b>	CXCR3-mediated signaling events, organism-specific biosystem; Chemokine receptors bind chemokines, organism-specific biosystem; Chemokine signaling pathway, organism-specific biosystem; Chemokine signaling pathway, conserved biosystem; Class A/1 (Rhodopsin-like receptors), organism-specific biosystem; Cytokine-cytokine receptor interaction, organism-specific biosystem; Cytokine-cytokine receptor interaction, conserved biosystem;
<b>Function</b>	cAMP-dependent protein kinase regulator activity; chemokine activity; receptor binding;

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