

Recombinant Human CXCL10, His-tagged

Cat. No. CXCL10-31H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	A DNA sequence encoding human CXCL10(Q9UBH0) corresponding to amino acid (1-98) was expressed with a C-terminal polyhistidine tag.
Species	Human
Source	HEK293
ProteinLength	1-98 a.a.
Description	CXCL10, also known as crg-2, belongs to the intercrine alpha (chemokine Cx) family. CXC chemokines are particularly significant for leukocyte infiltration in inflammatory diseases. With a three-dimensional crystal structure, CXCL10's signaling is mediated by the g protein-coupled receptor CXCR3, which is expressed on activated T cells and plays an important role in directing the migration of T cells, especially during Th1 responses. It is secreted by monocytes, epithelial cells, and endothelial cells in response to IFN gamma or other pro-inflammatory cytokines and stimuli. Binding of CXCL10 to CXCR3 results in pleiotropic effects, including stimulation of monocytes, natural killer and T-cell migration, and modulation of adhesion molecule expression. It is chemotactic for monocytes and T-lymphocytes. Baseline pre-treatment plasma levels of CXCL10 are elevated in patients chronically infected with hepatitis C virus (HCV) of genotypes 1 or 4.
Form	PBS pH7.4
Molecular Mass	The mature form of human CXCL10 consists of 78 amino acids (Val22-Pro98) and

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has a predicted molecular mass of 8.8kDa. In SDS-PAGE under reducing conditions, it migrates with an apparent molecular mass of 15KDa.

AA Sequence

MNQTAILICCLIFLTLSGIQGVPLSRTVRCTCISISNQPVNPRSLEKLEIPASQFCPRVE
IATMKKKGGEKRCL NPESKAIKNLLKAVSKERSKRSP

Purity

> 90% by SDS - PAGE

Storage

Store it at +4°C for short term. For long term storage, store it at -20°C - -70°C. Avoid freeze-thaw cycles.

GENE INFORMATION

Gene Name

CXCL10 chemokine (C-X-C motif) ligand 10 [Homo sapiens]

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 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

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UniProt ID	P02778
Chromosome Location	4q21
Pathway	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;
Function	cAMP-dependent protein kinase regulator activity; chemokine activity; receptor binding;

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