

## CXCL10 Protein, Human, Recombinant V2

## General Information

Synonyms:	SCYB10;INP10;mob-1;chemokine (C-X-C motif) ligand 10;C7;IFI10;crg-2;gIP-10;IP-10
Protein Construction:	Val22-Pro98 Expressed with an N-terminal Met
Species:	Human
Expression Host:	E. coli
Accession:	P02778
Molecular Weight:	8.6 kDa (Reducing conditions)

## QC Testing

Biological Activity:	ED 50 < 0.2 µg/ml, measured by a cell proliferation assay of HUVEC cells in the presence of 2.5 ng/ml h-VEGF, corresponding to a specific activity of > 5.0 × 10 <sup>3</sup> IU/mg.
Purity:	> 95% as determined by SDS-PAGE > 95% as determined by HPLC
Endotoxin:	< 0.2 EU/µg of the protein as determined by the LAL method.
Formulation:	Lyophilized from 0.22 µm filtered solution in 50 mM Tris, pH 8.0.

## Preparation and Storage

## Reconstitution:

Reconstitute the lyophilized protein in sterile deionized water. The product concentration should not be less than 100 µg/mL. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

## Stability &amp; Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

## Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

## Protein Background

IP-10/CXCL10 also known as CXCL10, is 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-1β, 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.

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