

Rev03  
Update: Dec,14,2021

**DATASHEET**

# IP-10/CXCL10, Human

Cat. No.: Z02971

## Product Introduction

<b>Species</b>	Human
<b>Protein Construction</b>	Expressed with an N-terminal Met. <b>CXCL10 (Val22-Pro98) Accession # P02778</b>
<b>Purity</b>	> 95% as analyzed by SDS-PAGE > 95% as analyzed by HPLC
<b>Endotoxin Level</b>	< 0.2 EU/μg of protein by gel clotting method
<b>Biological Activity</b>	ED <sub>50</sub> < 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.
<b>Expression System</b>	E. coli
<b>Apparent Molecular Weight</b>	~8.6 kDa, on SDS-PAGE under reducing conditions.
<b>Formulation</b>	Lyophilized after extensive dialysis against 50 mM Tris, pH 8.0.
<b>Reconstitution</b>	It is recommended that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute the lyophilized powder in ddH <sub>2</sub> O up to 100 μg/ml.
<b>Storage &amp; Stability</b>	Upon receiving, this product remains stable for up to 6 months at lower than -70°C. Upon reconstitution, the product should be stable for up to 1 week at 4°C or up to 3 months at -20°C. For long term storage it is recommended that a carrier protein (example 0.1% BSA) be added. Avoid repeated freeze-thaw cycles.

## Background

**Target 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.

**Synonyms :** Small inducible cytokine B10; CXCL10; 10 kDa interferon-gamma-induced protein; Gamma-IP10; IP-10; chemokine (C-X-C motif) ligand 10; C7; IFI10; INP10; crg-2; mob-1; SCYB10; gIP-10

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