

**IP-10/CXCL10**  
**Catalog # PVGS1507****Specification**

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**IP-10/CXCL10 - Product Information**

Primary Accession [Q548V9](#)  
**Species**  
Mouse

**Sequence**  
Ile22-Pro98

**Purity**  
> 95% as analyzed by SDS-PAGE

**Endotoxin Level**  
< 0.2 EU/ µg of protein by gel clotting method

**Biological Activity**  
The EC<sub>50</sub> value of Mouse IP-10 on Ca<sup>2+</sup> mobilization assay in CHO-K1/Gα15/mCXCR3 cells (human Gα15 and mouse CXCR3 stably expressed in CHO-K1 cells) is less than 2.0 µg/ml.

**Expression System**  
E. coli

Formulation **Lyophilized after extensive dialysis against PBS.**

**Reconstitution**  
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 or PBS up to 100 µg/ml.

**Storage & Stability**  
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.

**IP-10/CXCL10 - Additional Information**

**Target Background**  
Interferon Inducible Protein 10 (IP-10)/CXCL10 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-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. This chemokine elicits its effects by binding to the cell surface chemokine receptor CXCR3. IP-10 has been attributed to

several roles, such as chemo attraction for monocytes and T cells, promotion of T cell adhesion to endothelial cells, antitumor activity, and inhibition of bone marrow colony formation and angiogenesis.

### **IP-10/CXCL10 - Protein Information**

### **IP-10/CXCL10 - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

### **IP-10/CXCL10 - Images**