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## Product Data Sheet

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Product Name: IP 10 Mouse  
 Cat. No.: GP21137  
 Batch No.: 1

### Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped at Room temp.
Synonyms	Small inducible cytokine B10; CXCL10; 10 kDa; Gamma-IP10; IP-10; chemokine (C-X-C motif) ligand 10; C7; IFI10; INP10; crg-2; mob-1; SCYB10; gIP-10.		
Amino Acid Sequence	IPLARTVRCN CIHIDDGPVR MRAIGKLEII PASLSCRVE IIATMKKNDE QRCLNPESKT IKNLMKAFSQ KRSKRAP.		
Solubility	It is recommended to reconstitute the lyophilized IP-10 in sterile 18MΩ-cm H <sub>2</sub> O not less than 100μg/ml, which can then be further diluted to other aqueous solutions.		
Formulation	IP-10 was lyophilized from a 0.2μm filtered concentrated solution in 16 <sup>+</sup> PBS, pH 7.4.		

### Introduction

Chemokine (C-X-C motif) ligand 10 (CXCL10) is a small cytokine belonging to the CXC chemokine family. CXCL10 is secreted by several cell types. These cell types include monocytes, endothelial cells and fibroblasts. CXCL10 has been attributed to several roles, such as chemoattraction for monocytes and T cells, promotion of T cell adhesion to endothelial cells, antitumor activity, and inhibition of bone marrow colony formation and angiogenesis. The gene for CXCL10 is located on human chromosome 4 in a cluster among several other CXC chemokines. This chemokine elicits its effects by binding to the cell surface chemokine receptor CXCR3. The three-dimensional crystal structure of this chemokine has been determined under 3 different conditions to a resolution of up to 1.92Å.

### Biological Activity

Determined by its ability to chemoattract hCXCR3/HEK293 cells using a concentration

**Caution: Product has not been fully validated for medical applications. For research use only.**

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range of 100.0-500.0 ng/ml.

### Stability

Lyophilized IP-10 although stable at room temperature for 3 weeks, should be stored desiccated below  $-18^{\circ}\text{C}$ . Upon reconstitution CXCL10 should be stored at  $4^{\circ}\text{C}$  between 2-7 days and for future use below  $-18^{\circ}\text{C}$ . For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.

### Background

IP-10 Mouse Recombinant produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 77 amino acids and having a molecular mass of 8701 Dalton. The IP-10 is purified by proprietary chromatographic techniques.

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