

# Recombinant Human gamma-Interferon Inducible Protein 10/CXCL10 (rHuIP-10/CXCL10) PrimeGene Technical Data Sheet

<b>Catalog Number:</b>	201-10
<b>Source:</b>	<i>Escherichia coli</i> .
<b>Molecular Weight:</b>	Approximately 8.6 kDa, a single non-glycosylated polypeptide chain containing 77 amino acids.
<b>Quantity:</b>	5µg/25µg/1000µg
<b>AA Sequence:</b>	VPLSRTVRCT CISISNQPVN PRSLEKLEII PASQFCPRVE IIATMKKKGE KRCLNPESKA IKNLLKAVSK EMSKRSP
<b>Purity:</b>	> 97 % by SDS-PAGE and HPLC analyses.
<b>Biological Activity:</b>	Fully biologically active when compared to standard. The biological activity determined by a chemotaxis bioassay using human peripheral blood T-lymphocytes is in a concentration range of 10-50 ng/ml.
<b>Physical Appearance:</b>	Sterile Filtered White lyophilized (freeze-dried) powder.
<b>Formulation:</b>	Lyophilized from a 0.2 µm filtered concentrated solution in 20 mM PB, pH 7.4, 50 mM NaCl.
<b>Endotoxin:</b>	Less than 1 EU/µg of rHuIP-10/CXCL10 as determined by LAL method.
<b>Reconstitution:</b>	We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute in 10 mM HCl to a concentration of 0.1-1.0 mg/mL. Stock solutions should be apportioned into working aliquots and stored at ≤ -20 °C. Further dilutions should be made in appropriate buffered solutions.
<b>Shipping:</b>	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.
<b>Stability &amp; Storage:</b>	<b>Use a manual defrost freezer and avoid repeated freeze-thaw cycles.</b> <ul style="list-style-type: none"><li>● 12 months from date of receipt, -20 to -70 °C as supplied.</li><li>● 1 month, 2 to 8 °C under sterile conditions after reconstitution.</li><li>● 3 months, -20 to -70 °C under sterile conditions after reconstitution.</li></ul>
<b>Usage:</b>	This material is offered by Shanghai PrimeGene Bio-Tech for research, laboratory or further evaluation purposes. <b>NOT FOR HUMAN USE.</b>

## ***Human gamma-Interferon Inducible Protein 10/CXCL10***

CXCL10 also known as IP-10 is belonging to the CXC chemokine family. It is encoded by the CXCL10 gene. CXCL10 was originally identified in monocytes, endothelial cells and fibroblasts as a responder to IFN-γ. This chemokine elicits its effects by binding to the cell surface chemokine receptor CXCR3. CXCL10 has been shown to be a chemoattractant for activated T-lymphocytes and monocytes/macrophages. It also has other roles, such as promotion of T cell adhesion to endothelial cells, and inhibition of bone marrow colony formation and angiogenesis. 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.