

**Recombinant Human gamma-Interferon
Inducible Protein 10/CXCL10
(rHuIP-10/CXCL10)
ChemWhat Technical Data Sheet (TDS)**

Catalog Number:	201-10
Source:	<i>Escherichia coli</i> .
Molecular Weight:	Approximately 8.6 kDa, a single non-glycosylated polypeptide chain containing 77 amino acids.
Quantity:	5µg/25µg/1000µg
AA Sequence:	VPLSRTVRCCT CISISNQPVN PRSLEKLEII PASQFCPRVE IIATMKKKGE KRCLNPESKA IKNLLKAIVSK EMSKRSP
Purity:	> 97 % by SDS-PAGE and HPLC analyses.
Biological Activity:	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.
Physical Appearance:	Sterile Filtered White lyophilized (freeze-dried) powder.
Formulation:	Lyophilized from a 0.2 µm filtered concentrated solution in 20 mM PB, pH 7.4, 50 mM NaCl.
Endotoxin:	Less than 1 EU/µg of rHuIP-10/CXCL10 as determined by LAL method.
Reconstitution:	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.
Shipping:	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage:	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. <ul style="list-style-type: none">● 12 months from date of receipt, -20 to -70 °C as supplied.● 1 month, 2 to 8 °C under sterile conditions after reconstitution.● 3 months, -20 to -70 °C under sterile conditions after reconstitution.
Usage:	ChemWhat Limited in UK offers this branded product for research, development or further evaluation purposes. NOT FOR HUMAN USE.

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.