

Technical Data Sheet

Flogen[®] Recombinant Human γ -Interferon Inducible

Protein 10/CXCL10 (rHuIP-10/CXCL10)

Catalog Number:	PGR0201-010
Source:	<i>Escherichia coli</i> .
Molecular Weight:	Approximately 8.5 kDa, a single non-glycosylated polypeptide chain containing 77 amino acids.
Quantity:	5 μ g/25 μ g/1mg
AA Sequence:	VPLSRTVRCT CISISNPVN PRSLEKLEII PASQFCPRVE IIATMKKKGE KRCLNPESKA IKNLLKAVSK EMSKRSP
Purity:	>97% by SDS-PAGE and HPLC analyses.
Biological Activity:	Fully biologically active when compared to standard. The ED ₅₀ determined by a chemotaxis bioassay using human peripheral blood T-lymphocytes is less than 100 ng/ml, corresponding to a specific activity of > 1.0 \times 10 ⁴ IU/mg.
Appearance:	Sterile Filtered White lyophilized (freeze-dried) powder.
Formulation:	Lyophilized from a 0.2 μ m filtered concentrated solution in 20mM PB, pH 7.4, 50mM NaCl.
Endotoxin:	Less than 1EU/ μ g 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 sterile distilled water or aqueous buffer containing 0.1% BSA to a concentration of 0.1-1.0 mg/mL. Stock solutions should be apportioned into working aliquots and stored at \leq -20°C. Further dilutions should be made in appropriate buffered solutions.
Storage:	This lyophilized preparation is stable at 2-8°C, but should be kept at -20°C for long term storage, preferably desiccated. Upon reconstitution, the preparation is stable for up to one week at 2-8°C. For maximal stability, apportion the reconstituted preparation into working aliquots and store at -20°C to -70°C. Avoid repeated freeze/thaw cycles.
Usage:	For research, laboratory or further evaluation purposes. NOT FOR HUMAN USE.

Human γ -Interferon Inducible Protein 10/CXCL10

γ -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-1 β , 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.