



## Technical Data Sheet

### Recombinant Human IP-10 (rHuIP-10/CXCL10)

#### *Human IP-10/CXCL10*

IP-10 was originally identified as an IFN- $\gamma$ -inducible gene in monocytes, fibroblasts and endothelial cells. It has since been shown that IP-10 mRNA is also induced by LPS, IL-1 $\beta$ , TNF- $\alpha$ , 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.

Catalog Number:	RC312-21
Source:	<i>Escherichia coli</i> .
Molecular Weight:	8.5 kDa, a single non-glycosylated polypeptide chain containing 77 amino acids.
Quantity:	5ug/25ug/1000 $\mu$ g
Purity:	>97% by SDS-PAGE and HPLC analyses.
Biological Activity:	Fully biologically active when compared to standard. Determined by its ability to chemoattract human T-Lymphocytes using a concentration range of 10.0-100.0 ng/ml.
Physical Appearance:	Sterile Filtered White lyophilized (freeze-dried) powder.
Formulation:	Lyophilized from a 0.2 $\mu$ m filtered concentrated (0.5mg/ml) solution in 20mM PB, pH 7.4, 50mM NaCl.
AA Sequence:	VPLSRTVRCTCISISNQPVNPRSLEKLEIIPASQFCPRVEIATMKKKGEKRCCLNPESKAIKNLLK AVSKEMSKRSP
Endotoxin:	Less than 1EU/ $\mu$ 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.



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