

PRODUCT DATA SHEET



Bioworld Technology, Inc.

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

Catalog Number: PR1075

Source: Escherichia coli.

Quantity: 5µg/25µg/1.0mg

Description

IP-10 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.

Molecular Weight:

8.5 kDa, a single non-glycosylated polypeptide chain containing 77 amino acids.

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, corresponding to a Specific Activity of $\square 1 \times 10^4$ IU/mg.

Physical Appearance:

Sterile Filtered White Lyophilized (freeze-dried) powder.

Formulation:

Lyophilized from a 0.2mm filtered concentrated solution in 20mM PB, pH 7.4, 50mM NaCl.

AA Sequence:

V P L S R T V R C T C I S I S N Q P V N P R S L E K L E I
I P A S Q F C P R V E I I A T M K K K G E K R C L N P E
S K A I K N L L K A V S K E M S K R S P

Endotoxin:

Less than 1EU/mg 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 $<-20^{\circ}\text{C}$. Further dilutions should be made in appropriate buffered solutions.

Storage:

This lyophilized preparation is stable at $2-8^{\circ}\text{C}$, 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 $2-8^{\circ}\text{C}$. For maximal stability, apportion the reconstituted preparation into working aliquots and store at -20°C to -70°C . Avoid repeated freeze/thaw cycles.

Usage:

This material is offered by USA Bioworld biotech for research, laboratory or further evaluation purposes. NOT FOR HUMAN USE. Made in China

MADE IN CHINA

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