

# PRODUCT DATA SHEET



Bioworld Technology, Inc.

## Recombinant IP-10/CXCL10, Human

Catalog Number: BK0112-10 $\mu$ g

Source: Escherichia coli.

Quantity: 10 $\mu$ g

### Description:

IP-10/CXCL10 also known as CXCL10, is 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. Recombinant human IP-10/CXCL10 (rhIP-10) produced in E. coli is a single non-glycosylated polypeptide chain containing 78 amino acids. A fully biologically active molecule, rhIP-10 has a molecular mass of 8.6kDa analyzed by reducing SDS-PAGE and is obtained by proprietary chromatographic techniques at GenScript.

### Molecular Weight:

8.6 kDa, observed by reducing SDS-PAGE.

### Purity:

> 95% by SDS-PAGE and HPLC analyses.

### Biological Activity:

ED50 < 0.2 $\mu$ g/ml, measured by a cell proliferation assay of HUVEC cells in the presence of 2.5ng/ml h-VEGF, corresponding to a specific activity of > 5.0 $\times$  10<sup>3</sup> IU/mg.

### Physical Appearance:

Sterile Filtered White lyophilized (freeze-dried) powder.

### Formulation:

Lyophilized after extensive dialysis against 50mM Tris, pH8.0.

### AA Sequence:

MVPLSRTVRCCTCISISNQPVNPRSLKLEIIPASQF  
CPRVEIIATMKKKGEKRCLNPESKAI-  
KNLLKAVSKEMSKRSP

### Endotoxin:

< 0.2 EU/ $\mu$ g, determined by LAL method.

### Reconstitution:

Reconstituted in ddH<sub>2</sub>O at 100  $\mu$ g/ml.

### Storage:

Lyophilized recombinant human IP-10/CXCL10 (rhIP-10) remains stable up to 6 months at -80  $^{\circ}$ C from date of receipt. Upon reconstitution, rhIP-10 should be stable up to 2 weeks at 4  $^{\circ}$ C or up to 3 months at -20  $^{\circ}$ C.

### Usage:

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