

# PRODUCT DATA SHEET



Bioworld Technology, Inc.

## Recombinant IP-10/CRG-2/CXCL10, Rat

Catalog Number: BK0318-5 $\mu$ g

Source: HEK 293

Quantity: 5 $\mu$ g

### Description:

C-X-C motif chemokine 10 (CXCL10) also known as interferon gamma-induced protein 10 (IP-10) or small-inducible cytokine B10, 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 the skin. Recombinant rat IP-10/CRG-2/CXCL10 produced in HEK 293 cells is a polypeptide chain containing 77 amino acids. A fully biologically active molecule, rr IP-10/CRG-2/CXCL10 has a molecular mass of 8.7 kDa analyzed by reducing SDS-PAGE and is obtained by chromatographic techniques at GenScript.

### Molecular Weight:

8.7 kDa, observed by reducing SDS-PAGE.

### Purity:

> 98% as analyzed by SDS-PAGE.

### Biological Activity:

The EC<sub>50</sub> value of rat IP-10/CRG-2/CXCL10 on Ca<sup>2+</sup> mobilization assay in CHO-K1/G $\alpha$ 15/rCXCR3 cells (human G $\alpha$ 15 and rat CXCR3 stably expressed in CHO-K1 cells) is less than 300 ng/ml.

### Physical Appearance:

Sterile Filtered White lyophilized (freeze-dried) powder.

### Formulation:

Lyophilized after extensive dialysis against PBS.

### AA Sequence:

IPLARTVRCTCID-  
FHEQPLRPRAIGKLEIIPASLSCPHVE-  
IIATMKKNNE-  
KRCLNPESEAIKSLKAVSQRRSKRAP

### Endotoxin:

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

### Reconstitution:

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

### Storage:

Lyophilized recombinant Rat IP-10/CRG-2/CXCL10 remains stable up to 6 months at -80  $^{\circ}$ C from date of receipt. Upon reconstitution, Rat IP-10/CRG-2/CXCL10 should be stable up to 1 week at 4  $^{\circ}$ C or up to 3 months at -20  $^{\circ}$ C.

### Usage:

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