

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

**Cat. No.:** Z03281-5

**Size:** 5.0 ug

**Synonyms:** Small inducible cytokine B10, CXCL10, 10 kDa interferon-gamma-induced protein, Gamma-IP10, IP-10, chemokine (C-X-C motif) ligand 10, C7, IFI10, INP10, crg-2, mob-1, SCYB10, gIP-10

### 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.

### Amino Acid Sequence:

00001 IPLARTVRCT CIDFHEQPLR PRAIGKLEII PASLSCPHVE  
00041 IIATMKKNNE KRCLNPESEA IKSLKAVSQ RRSKRAP

**Source:** HEK 293

**Species:** Rat

**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.

**Molecular Weight:** 8.7 kDa, observed by reducing SDS-PAGE.

**Formulation:** Lyophilized after extensive dialysis against PBS.

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

**Purity:** > 98% as analyzed by SDS-PAGE.

**Endotoxin Level:** < 0.2 EU/ $\mu$ g, determined by LAL method.

**Storage:** Lyophilized recombinant Rat IP-10/CRG-2/CXCL10 remains stable up to 6 months at lower than -70°C from date of receipt. Upon reconstitution, Rat IP-10/CRG-2/CXCL10 should be stable up to 1 week at 4°C or up to 3 months at -20°C.