DATASHEET
Version 20181206

IP-10/CRG-2/CXCL10, Rat

Cat. No.: Z03281-1

Size: 1.0 mg

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-γ-inducible gene in monocytes, fibroblasts and endothelial cells. It has since been shown that IP-10 mRNA is also induced by LPS, IL-1β, 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 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:

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00001 IPLARTVRCT CIDFHEQPLR PRAIGKLEII PASLSCPHVE
00041 IIATMKKNNE KRCLNPESEA IKSLLKAVSQ RRSKRAP
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Source: *HEK 293*

Species: Rat

Biological Activity: The EC_{50} value of rat IP-10/CRG-2/CXCL10 on Ca^{2+} mobilization assay in CHO-K1/Gα15/rCXCR3 cells (human Gα15 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_2O or PBS at 100 μg/ml.

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

Endotoxin Level: < 0.2 EU/μg, 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.

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