DATASHEET
Version 20181206

IP-10/CXCL10, Human

Cat. No.: Z02971-1

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:

IP-10/CXCL10 also known as CXCL10, 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 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.

Amino Acid Sequence:

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00001 MVPLSRTVRC TCISISNQPV NPRSLEKLEI IPASQFCPRV
00041 EIIATMKKKG EKRCLNPESK AIKNLLKAVS KEMSKRSP
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Source: *E. coli*

Species: Human

Biological Activity: ED_{50} < 0.2μg/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 > 5.0×10^3 IU/mg.

Molecular Weight: 8.6 kDa, observed by reducing SDS-PAGE.

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

Reconstitution: Reconstituted in ddH_2O at 100 μg/ml.

Purity: > 95% by SDS-PAGE and HPLC analyses.

Endotoxin Level: < 0.2 EU/μg, determined by LAL method.

Storage: Lyophilized recombinant human IP-10/CXCL10 (rhIP-10) remains stable up to 6 months at lower than -70°C from date of receipt. Upon reconstitution, rhIP-10 should be stable up to 2 weeks at 4°C or up to 3 months at -20°C.

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