

## **Product Datasheet**

## RecombinantIP-10/CXCL10, Human (orb1494811)

Catalog Number orb1494811

**Category** Proteins

**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.

**Form/Appearance** Lyophilized after extensive dialysis against 50mM Tris, pH 8.0.

**Buffer/Preservatives** Lyophilized after extensive dialysis against 50mM Tris, pH 8.0.

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

**Purification** > 95% by SDS-PAGE and HPLC analyses.

Protein Sequence MVPLSRTVR CTCISISNQP VNPRSLEKLE IIPASQFCPR VEIIATMKKK GEKRCLNPES

KAIKNLLKAV SKEMSKRSP

**MW** 8.6 kDa, observed by reducing SDS-PAGE.

**Application notes** Reconstituted in ddH2O at  $100 \mu g/ml$ .

**Endotoxins** 0.2 EU/μg, determined by LAL method.

**Source** Escherichia coli.

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**Biological Activity** ED50 5.0× 10<sup>3</sup> IU/mg.

**Storage** Lyophilized recombinant human IP-10°CXCL10 (rhIP-10) remains stable up to 6

months at -80°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.

**Note** For research use only

**Expiration Date** 6 months from date of receipt.