

Recombinant Mouse Interferon gamma induced Protein (rm IP-10 / CXCL10)

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

Introduction: IP-10 is a small cytokine belonging to the CXC chemokine family. IP-10 is secreted by several cell types. These cell types include monocytes, endothelial cells and fibroblasts. IP-10 has been attributed to several roles, such as chemoattraction for monocytes and T cells, promotion of T cell adhesion to endothelial cells, anti tumor activity and inhibition of bone marrow colony formation and angio-genesis. The gene for IP-10 is located on human chromosome 4 in a cluster among several other CXC chemokines. IP-10 elicits its effects by binding to the cell surface chemokine receptor CXCR3. The three-dimensional crystal structure of this chemokine has been determined under 3 different conditions to a resolution of up to 1.92Å.

Description: Recombinant mouse IP-10 produced in *E.Coli* is a single, non-glycosylated, polypeptide chain containing 77 amino acids and having a molecular mass of 8701 Dalton. rm IP-10 is purified by proprietary chromatographic techniques.

Source: *Escherichia Coli*.

Physical Appearance: Sterile filtered white lyophilized (freeze-dried) powder.

Formulation: The protein was lyophilized from 0.2µm filtered concentrated solution in 1 x PBS, pH 7.4. The sample size of 1µg contains Trehalose 5% (w/vol) for better recovery

Solubility: It is recommended to reconstitute the lyophilized rm IP-10 in sterile H₂O not less than 100 µg/ml, which can then be further diluted to other aqueous solutions.

Stability: Lyophilized rm IP-10, although stable at room temperature for 3 weeks, should be stored desiccated below -18° C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.

Purity: Greater than 97.0% as determined by RP-HPLC and by SDS-PAGE.

Amino acid Sequence: IPLARTVRCN CIHIDDGPVR MRAIGKLEII PASLSCPRVE IATMKKNDE QRCLNPESKT IKNLMKAFSQ KRSKRAP.

Biological Activity: Determined by its ability to chemoattract hCXCR3/HEK293 cells using a concentration range of 100.0-500.0 ng/ml.

This material is offered for **research use only**. Not for use in human. For in vitro use only. ImmunoTools will not be held responsible for patent infringement or other violations that may occur with the use of our products.

<i>small</i>	5 µg	Cat.N°	12343880
<i>medium</i>	25 µg	Cat.N°	12343884
<i>large</i>	100 µg	Cat.N°	12343886

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