

## Overview

<b>Synonyms</b>	IP-10, CRG-2, CXCL10
<b>Description</b>	<b>Interferon Inducible Protein 10 (IP-10)/CXCL10</b> was 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 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. This chemokine elicits its effects by binding to the cell surface chemokine receptor CXCR3. IP-10 has been attributed to several roles, such as chemo attraction for monocytes and T cells, promotion of T cell adhesion to endothelial cells, antitumor activity, and inhibition of bone marrow colony formation and angiogenesis. Recombinant <b>Mouse IP-10/CXCL10</b> produced in <i>E. coli</i> cells is a single non-glycosylated polypeptide chain containing 77 amino acids. A fully biologically active molecule, rmIP-10 has a molecular mass of 9.0 kDa analyzed by reducing SDS-PAGE and is obtained by chromatographic techniques.
<b>Accession No</b>	Q548V9
<b>Source</b>	<i>E. coli</i>
<b>Biological Activity</b>	The EC <sub>50</sub> value of Mouse IP-10 on Ca <sup>2+</sup> mobilization assay in CHO-K1/G $\pm$ 15/mCXCR3 cells (human G $\pm$ 15 and mouse CXCR3 stably expressed in CHO-K1 cells) is less than 2 $\mu$ g/ml.
<b>Sequence</b>	IPLARTVRCN CIHIDDGPVR MRAIGKLEII PASLSCPVE IIATMKKNDE QRCLNPESKT IKNLMKAFSQ KRSKRAP

## Properties

<b>Measured Molecular Weight</b>	9.0 kDa, observed by reducing SDS-PAGE.
<b>Purity</b>	> 95% as analyzed by SDS-PAGE.
<b>Formulation</b>	Lyophilized after extensive dialysis against PBS.
<b>Reconstitution</b>	Reconstituted in ddH <sub>2</sub> O or PBS at 100 $\mu$ g/ml.
<b>Endotoxin Level</b>	< 0.2 EU/ $\mu$ g, determined by LAL method.
<b>Storage</b>	Lyophilized recombinant <b>Mouse IP-10 /CXCL10</b> remains stable up to 6 months at lower than -70°C from date of receipt. Upon reconstitution, Mouse IP-10/CXCL10 should be stable up to 1 week at 4°C or up to 3 months at -20°C. For long term storage it is recommended that a carrier protein (example 0.1% BSA) be added. Avoid repeated freeze-thaw cycles.
<b>Note</b>	For research use only

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