



# Recombinant Mouse IP-10 (CXCL10)

20190529BB



**FOR RESEARCH ONLY! NOT FOR HUMAN USE!**

<b>Cat.-no.:</b>	<b>M10-025</b>
<b>Size:</b>	25 µg
<b>Lot. No.:</b>	According to product label

### Sequence

IPLARTVRCNCIHIHDDGPFVRMRAIGKLEIIPASLSCPVEI IATMKKNDEQR  
CLNPESKTIKNLMKAFSQKRSKRAP

### Database References

<b>Protein RefSeq:</b>	NP_067249.1
<b>Uniprot ID:</b>	P17515
<b>mRNA RefSeq:</b>	NM_021274.2

## Scientific Background

<b>Gene-ID (NCBI):</b>	15945
<b>Synonyms:</b>	Cxcl10; C7; IP10; CRG-2; INP10; IP-10; Ifi10; mob-1; Scyb10; gIP-10

IP-10 is a CXC chemokine that signals through the CXCR3 receptor. IP-10 selectively chemoattracts Th1 lymphocytes and monocytes, and inhibits cytokine-stimulated hematopoietic progenitor cell proliferation. Additionally, it is angiostatic and mitogenic for vascular smooth muscle cells. Recombinant Murine IP-10 is an 8.7 kDa protein consisting of 77 amino acids, including the four conserved cysteine residues present in CXC chemokines.

## Product Specifications

<b>Expressed in</b>	E. coli
<b>Purity</b>	> 98% by SDS-PAGE & HPLC analyses
<b>Endotoxin level</b>	< 0.1 ng /µg of protein (<1EU/µg).
<b>Formulation</b>	lyophilized
<b>Length (aa):</b>	77
<b>MW:</b>	8.7 kDa

**Stability:** The lyophilized protein is stable at room temperature for 1 month and at 4°C for 6 months. Reconstituted working aliquots are stable for 1 week at 2°C to 8°C and for 3 months at -20°C to -80°C.

**Reconstitution:** Centrifuge the vial prior to opening. Reconstitute in water to a concentration of 0.1-1.0 mg/ml. *Do not vortex.* This solution can be stored at 2-8°C for up to 1 week. For extended storage, it is recommended to further dilute in a buffer containing a carrier protein (example 0.1% BSA) and store in working aliquots at -20°C to -80°C.



**AVOID REPEATED FREEZE AND THAW CYCLES!**

**Biological Activity:** Assay #1: Determined by its ability to chemoattract IL-2 activated T cells using a concentration range of 0.1-10.0 ng/ml.

Assay #2: Determined by its ability to chemoattract CXCR3 transfected/HEK293 cells using a concentration range of 100-500 ng/ml.