

## Recombinant Rat gamma-Interferon Inducible Protein 10/CXCL10

### Information

<b>Gene ID</b>	245920
<b>Accession #</b>	P48973
<b>Alternate Names</b>	Gamma-IP10, Small-inducible Cytokine B10, Protein Mob-1
<b>Source</b>	Escherichia coli.
<b>M.Wt</b>	Approximately 8.7 kDa, a single non-glycosylated polypeptide chain containing 77 amino acids.
<b>AA Sequence</b>	IPLARTVRCT CIDFHEQPLR PRAIGKLEII PASLSCPHVE IIATMKKNNE KRCLNPESEA IKSLLKAVSQ RRSKRAP
<b>Appearance</b>	Sterile Filtered White lyophilized (freeze-dried) powder.
<b>Stability &amp; Storage</b>	Use a manual defrost freezer and avoid repeated freeze-thaw cycles - 12 months from date of receipt, -20 to -70 °C as supplied - 1 month, 2 to 8 °C under sterile conditions after reconstitution - 3 months, -20 to -70 °C under sterile conditions after reconstitution
<b>Formulation</b>	Lyophilized from a 0.2 µm filtered concentrated solution in PBS, pH 7.4.
<b>Reconstitution</b>	We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute in sterile distilled water or aqueous buffer containing 0.1 % BSA to a concentration of 0.1-1.0 mg/mL. Stock solutions should be apportioned into working aliquots and stored at ≤ -20 °C. Further dilutions should be made in appropriate buffered solutions.
<b>Biological Activity</b>	Fully biologically active when compared to standard. The biological activity determined by a chemotaxis bioassay using human CXCR3 transfected HEK293 cells is in a concentration range of 10-50 ng/ml.
<b>Shipping Condition</b>	Gel pack.
<b>Handling</b>	Centrifuge the vial prior to opening.
<b>Usage</b>	For Research Use Only! Not to be used in humans.

### Components and Storage

Components	5µg	100µg	500µg
Recombinant Rat gamma-Interferon Inducible Protein 10/CXCL10	5µg	100µg	500µg

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- 12 months from date of receipt, -20 to -70 °C as supplied
- 1 month, 2 to 8 °C under sterile conditions after reconstitution
- 3 months, -20 to -70 °C under sterile conditions after reconstitution

## Quality Control

Purity	> 95 % by SDS-PAGE and HPLC analyses.
Endotoxin	Less than 1 EU/ $\mu$ g of rRtIP-10/CXCL10 as determined by LAL method.

## Description

CXCL10 also known as IP-10 is belonging to the CXC chemokine family. It is encoded by the CXCL10 gene, and in rat it is also named the Mob-1 gene. This gene was identified on the basis of differential expression in rat embryo fibroblasts. CXCL10 elicits its effects by binding to the cell surface chemokine receptor CXCR3. CXCL10 has been shown to be a chemoattractant for activated T-lymphocytes and monocytes/macrophages. It also has other roles, such as promotion of T cell adhesion to endothelial cells, and inhibition of bone marrow colony formation and angiogenesis. Rat CXCL10 shares approximately 68 % amino acid sequence identity with human CXCL10.

## Reference

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3. Liang P, Averboukh L, Zhu W, et al. 1994. Proc Natl Acad Sci U S A. 91:12515-9
4. Booth V, Keizer DW, Kamphuis MB, et al. 2002. Biochemistry. 41:10418-25
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6. Angiolillo AL, Sgadari C, Taub DD, et al. 1995. J Exp Med. 182:155-62.

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