

## Recombinant Rat CXCL10 Protein (Ile22-Pro98), His-tagged

Cat. No. CXCL10-938R Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant Rat CXCL10 Protein (NP_620789.1) (Ile22-Pro98) was produced by Yeast expression system. This protein was expressed with a polyhistidine tag at the C-terminus.
<b>Species</b>	Rat
<b>Source</b>	Yeast
<b>ProteinLength</b>	Ile22-Pro98
<b>Description</b>	(C-X-C motif) ligand (CXCL)10 (CXCL10) belongs to the ELR(-) CXC subfamily chemokine. CXCL10/IP-10 exerts its function through binding to chemokine (C-X-C motif) receptor 3 (CXCR3), a seven trans-membrane receptor coupled to G proteins. CXCL10/IP-10 and its receptor, CXCR3, appear to contribute to the pathogenesis of many autoimmune diseases, organ specific (such as type 1 diabetes, autoimmune thyroiditis, Graves' disease and ophthalmopathy), or systemic (such as rheumatoid arthritis, psoriatic arthritis, systemic lupus erythematosus, mixed cryoglobulinemia, Sjögren syndrome, or systemic sclerosis). CXCL10/IP-10 is secreted by several cell types including endothelial cells, fibroblasts, keratinocytes, thyrocytes, preadipocytes, etc. Determination of high level of CXCL10/IP-10 in peripheral fluids is therefore a marker of host immune response.
<b>Predicted N Terminal</b>	Ile 22
<b>Form</b>	Lyophilized from sterile PBS.PH7.4. Normally 5 % - 8 % trehalose, mannitol and

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0.01% Tween80 are added as protectants before lyophilization.

**Molecular Mass**

The recombinant rat CXCL10 consists of 87 amino acids and predicts a molecular mass of 10 kDa.

**Purity**

> 95 % as determined by SDS-PAGE.

**Stability**

Samples are stable for up to twelve months from date of receipt at -70 centigrade.

**Storage**

Store it under sterile conditions at -20 centigrade to -80 centigrade. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

**Reconstitution**

It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 mg/ml. Centrifuge the vial at 4°C before opening to recover the entire contents.

**Shipping**

In general, recombinant proteins are provided as lyophilized powder which are shipped at ambient temperature.

Bulk packages of recombinant proteins are provided as frozen liquid. They are shipped out with blue ice unless customers require otherwise.

## GENE INFORMATION

**Gene Name**

Cxcl10 chemokine (C-X-C motif) ligand 10 [ *Rattus norvegicus* ]

**Official Symbol**

CXCL10

**Synonyms**


CXCL10; gamma-IP10; protein Mob-1; IP-10; Scyb10;

**Gene ID**

245920

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mRNA Refseq [NM\\_139089](#)

Protein Refseq [NP\\_620789](#)

UniProt ID [P48973](#)

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