

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

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

SPECIFICATION

Product Overview	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.
Species	Rat
Source	Yeast
ProteinLength	Ile22-Pro98
Description	(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.
Predicted N Terminal	Ile 22
Form	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 [<i>Rattus norvegicus</i>]
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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