



## Product Datasheet

<b>Product Name</b>	Recombinant Human I-TAC (CXCL11), His Tag
<b>Cata No</b>	CB500032
<b>Source</b>	<i>Escherichia Coli</i> .
<b>Synonyms</b>	Small inducible cytokine B11, CXCL11, Interferon-inducible T-cell alpha chemoattractant, I-TAC, Interferon-gamma-inducible protein 9, IP-9, H174, Beta-R1, chemokine (C-X-C motif) ligand 11, IP9, b-R1, SCYB11, SCYB9B, MGC102770.

### Description

Chemokine (C-X-C motif) ligand 11 (CXCL11) is a small cytokine belonging to the CXC chemokine family that is also called Interferon-inducible T-cell alpha chemoattractant (I-TAC) and Interferon-gamma-inducible protein 9 (IP-9). It is highly expressed in peripheral blood leukocytes, pancreas and liver, with moderate levels in thymus, spleen and lung and low expression levels were in small intestine, placenta and prostate. Gene expression of CXCL11 is strongly induced by IFN- $\gamma$  and IFN- $\beta$ , and weakly induced by IFN- $\alpha$ . This chemokine elicits its effects on its target cells by interacting with the cell surface chemokine receptor CXCR3, with a higher affinity than do the other ligands for this receptor, CXCL9 and CXCL10. CXCL11 is chemotactic for activated T cells. Its gene is located on human chromosome 4 along with many other members of the CXC chemokine family. I-TAC (Interferon-inducible T-cell alpha chemoattractant) Human Recombinant produced in E.Coli is a single, non-glycosylated, polypeptide chain containing amino acids 63-87 and having a total molecular mass of 9 kDa which includes a 4 kDa His tag.

The I-TAC is purified by proprietary chromatographic techniques.

### Physical Appearance

Sterile Filtered White lyophilized (freeze-dried) powder.

### Purity

Greater than 90.0% as determined by:  
(a) Analysis by RP-HPLC.  
(b) Analysis by SDS-PAGE.

### Formulation

The CXCL11 was lyophilized from a concentrated (1mg/ml) solution in water containing 1X PBS, 0.1% SDS and 1mM DTT.

### Stability

Lyophilized I-TAC although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution CXCL11 should be stored at 4°C between 2-7 days and for future use below -18°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA).

**Please avoid freeze-thaw cycles.**

### Application

1. Positive control for Western blot.
2. Antibody production.
3. Protein assay.

**\* For Non-Clinical Research Use Only \***