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## Product Data Sheet

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Product Name: I TAC Human, His  
 Cat. No.: GP21141  
 Batch No.: 1

### Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	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.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH MFPMFKRGRGRC LCIGPGVKAV KVADIEKASI MYPNNCDKI EVIITLKENK GQRCLNPKSK QARLIKKVE RKNF.		
Formulation	The I-TAC solution (1mg/ml) contains 10mM sodium citrate(pH 3.5), 20% glycerol and 2mM DTT.		

### Introduction

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-g and IFN-b, and weakly induced by IFN-a. 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.

### Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1%

**Caution: Product has not been fully validated for medical applications. For research use only.**

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HSA or BSA). Avoid multiple freeze-thaw cycles.

### Background

I-TAC (CXCL11) Human Recombinant produced in E.coli is a single, non-glycosylated polypeptide chain containing 94 amino acids (22-94) and having a molecular mass of 10.6kDa. I-TAC is fused to a 21 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

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