



## *Recombinant Human I-TAC / CXCL11*

*Catalog Number: 100-128*

*Accession Number: O14625*

### *Specifications and Uses:*

**Alternate Names:** CXCL11, B-R1

**Description:**

Interferon Inducible T cell Alpha Chemokine (I-TAC), or CXCL11, expressed at high levels in leukocytes, pancreas and liver exposed to IFN $\alpha$ ,  $\beta$ , and  $\gamma$ . I-TAC is one of three chemokines known to bind the receptor CXCR3 (the two others being CXCL9 and CXCL10 (IP-10)) to act as a chemoattractant for IL-2 activated T cells. CXCL11 differs from the other CXCR3 ligands in that it has a higher receptor affinity, thus acts as a stronger agonist. Recombinant human I-TAC is a non-glycosylated protein, containing 73 amino acids, with a molecular weight of 8.3 kDa.

**Source:** *E.coli*

**Physical Appearance:** Sterile filtered white lyophilized (freeze-dried) powder.

**Formulation and Stability:**

Recombinant human I-TAC is lyophilized with no additives.

Lyophilized product is very stable at -20°C. Reconstituted material should be aliquoted and frozen at -20°C. It is recommended that a carrier protein (0.1% HSA or BSA) is added for long term storage.

**Reconstitution:**

Centrifuge vial before opening. When reconstituting the product, gently pipet and wash down the sides of the vial to ensure full recovery of the protein into solution. It is recommended to reconstitute the lyophilized product with sterile water at a concentration of 0.1 mg/mL, which can be further diluted into other aqueous solutions.

**Protein Content and Purity (typically  $\geq$  98%) determined by:**

HPLC, Reducing and Non-reducing SDS-PAGE, UV spectroscopy at 280 nm

**Endotoxin Level:**

Measured by kinetic LAL analysis and is typically  $\leq$  1 EU/ $\mu$ g protein.

**Biological Activity:**

The biological activity is determined by the ability to chemoattract IL-2 activated T cells at a concentration of 0.1-10 ng/mL.

**AA Sequence:**

FPMFKRGRCL CIGPGVKAVK VADIEKASIM YPSNNCDKIE VIITLKENKG QRCLNPKSKQ ARLIKKVER KNF

**THIS PRODUCT IS FOR RESEARCH USE ONLY AND IS NOT FOR USE IN HUMANS!**

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