

BACKGROUND

Interferon Inducible T-cell α Chemokine (I-TAC), or CXCL11, expressed at high levels in leukocytes, pancreas and liver exposed to IFN α , β , and γ . 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 and having a molecular mass of 8.3 kDa.

Alternative Names:

CXCL11, B-R1

Amino Acid Sequence:

FPMFKRGRCL CIGPGVKAVK VADIEKASIM YPSNCDKIE
VIITLKENKG QRCLNPKSKQ ARLIIKKVER KNF

TECHNICAL INFORMATION

Source: *E.coli*

Physical Appearance:

Sterile Filtered white lyophilized (freeze-dried) powder.

Formulation:

Recombinant human I-TAC is lyophilized with no additives.

Stability:

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 determined by:

- UV spectroscopy at 280 nm
- RP-HPLC calibrated against a known standard
- Quantitation against a known standard via reducing and non-reducing SDS-PAGE gels.

Endotoxin Level:

Endotoxin level, as measured by LAL analysis, is <0.01ng/ug or <0.1EU/ug.

Biological Activity:

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

Products are for research use only. They are not intended for human, animal, or diagnostic applications.

