9051 Mira Mesa Blvd, #910094
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I TAC Human

I-TAC Human Recombinant (CXCL11)
CHK0070

Product Overview

Name	I TAC Human
Description	
I-TAC Human Recombinant (CXCL11)	
Accession (Primary)	O14625
Synonyms	
Small inducible cytokine B11, CXCL11, I-TAC, IP-9, H174, Beta-R1, chemokine (C-X-C motif) ligand 11, IP9, b-R1, SCYB11, SCYB9B, MGC102770.	
Introduction	
Chemokine (C-X-C motif) ligand 11 (CXCL11) is a small cytokine belonging to the CXC chemokinen family that is also called inducible T-cell alpha chemoattractant (I-TAC) and (IP-9). I-TAC 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. The I-TAC 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. I-TAC is chemotactic for activated T cells. The CXCL11 gene is located on human chromosome 4 along with many other members of the CXC chemokine family.	
Source	
Escherichia Coli.	
Physical Appearance	
Sterile Filtered White lyophilized (freeze-dried) powder.	
Formulation	
Lyophilized from a 0.2?m filtered concentrated (0.5mg/ml) solution in 20mM PB, pH 7.4, 100mM NaCl.	
Stability	
Lyophilized I-TAC although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution I-TAC 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 prevent freeze-thaw cycles.	
Purity	
Greater than 97.0% as determined by: (a) Analysis by RP-HPLC. (b) Analysis by SDS-PAGE.	

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Amino acid sequence

FPMFKRGRCLCIGPGVKAVKVADIEKASIMYPSNNCDKIEVIITLKENKGQRCLNPKSKQARLIIKKVERKNF.

Biological Activity

Determined by its ability to chemoattract human IL-2 activated T-Lymphocytes using a concentration range of 0.1-10.0 ng/ml.

Solubility

It is recommended to reconstitute the lyophilized I-TAC in sterile 18MΩ-cm H2O not less than 100 µg/ml, which can then be further diluted to other aqueous solutions.

Precautions

I TAC Human is for research use only and not for use in diagnostic or therapeutic procedures.

Target Information: (O14625)