

Rev04
Update: Mar,01,2022

DATASHEET

I-TAC/CXCL11, Human(HEK 293-expressed)

Cat. No.: Z03246

Product Introduction

Species	Human
Protein Construction	CXCL11 (Phe22-Phe94) Accession # O14625
Purity	> 98% as analyzed by SDS-PAGE
Endotoxin Level	< 0.2 EU/μg of protein by gel clotting method
Biological Activity	The EC ₅₀ value of human I-TAC/CXCL11 on Ca ²⁺ mobilization assay in CHO-K1/Ga15/hCXCR3 cells (human Ga15 and human CXCR3 stably expressed in CHO-K1 cells) is less than 0.5 μg/ml.
Expression System	HEK 293
Apparent Molecular Weight	~8.3 kDa, on SDS-PAGE under reducing conditions.
Formulation	Lyophilized after extensive dialysis against PBS.
Reconstitution	It is recommended that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute the lyophilized powder in ddH ₂ O or PBS up to 100 μg/ml.
Storage & Stability	Upon receiving, this product remains stable for up to 6 months at lower than -70°C. Upon reconstitution, the product should be stable for up to 1 week at 4°C or up to 3 months at -20°C. For long term storage it is recommended that a carrier protein (example 0.1% BSA) be added. Avoid repeated freeze-thaw cycles.

Background

Target Background : Chemokine (C-X-C motif) ligand 11(CXCL11), also known as I-TAC and B-R1, 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). This chemokine elicits its effects on target cells by interacting with chemokine receptor CXCR3 having a higher affinity than other ligands for this receptor such as CXCL9 and CXCL10. CXCL11 is chemotactic for activated T cells. The gene encoding CXCL11 has been mapped to chromosome 4. CXCL11 cDNA encodes a 94 amino acid residue precursor protein with a 21 amino acid residue putative signal sequence, which is cleaved to form the mature 73 amino acid residue protein. CXCL11 shares 36% and 37% amino acid sequence homology with IP-10 and MIG (two other known human non-ELR CXC chemokines), respectively. Mouse CXCL11 exhibits 68% sequence homology with human CXCL11.

Synonyms : CXCL-11; H174; I-TAC; IP-9; IP9; SCYB11; SCYB9B; b-R1; C-X-C motif chemokine ligand 11

For laboratory research use only. Direct human use, including taking orally and injection and clinical use are forbidden.