

PRODUCT DATA SHEET



Bioworld Technology, Inc.

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

Catalog Number: BK0319-50µg

Source: HEK 293

Quantity: 50µg

Description:

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. Recombinant human I-TAC/CXCL11 produced in HEK293 cells is a single non-glycosylated polypeptide chain containing 73 amino acids. A fully biologically active molecule, rhI-TAC/CXCL11 has a molecular mass of 8.3 kDa analyzed by reducing SDS-PAGE and is obtained by chromatographic techniques at GenScript.

Molecular Weight:

8.3 kDa, observed by reducing SDS-PAGE.

Purity:

> 98% as analyzed by SDS-PAGE.

Biological Activity:

The EC50 value of human I-TAC/CXCL11 on Ca²⁺

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.

Physical Appearance:

Sterile Filtered White lyophilized (freeze-dried) powder.

Formulation:

Lyophilized after extensive dialysis against PBS.

AA Sequence:

FPMFKRGRCLCIGPGVKAVKVADIEKASIMYP-SNNCDKIEVIITLKENKGQRCLNPK-SKQARLIKKVERKNF

Endotoxin:

< 0.2 EU/µg, determined by LAL method.

Reconstitution:

Reconstituted in ddH₂O or PBS at 100µg/ml.

Storage:

Lyophilized recombinant human I-TAC/ CXCL11 remains stable up to 6 months at -80 °C from date of receipt. Upon reconstitution, human CXCL11/I-TAC should be stable up to 1 week at 4 °C or up to 2 months at -20 °C.

Usage:

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