

Product Datasheet

Recombinant I-TAC/CXCL11, Human (HEK293-expressed) (orb1494634)

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.

Endotoxins

< 0.2 EU/μg, determined by LAL method.

Preservatives

Lyophilized after extensive dialysis against PBS.

Form/Appearance

Lyophilized after extensive dialysis against PBS.

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.

Note

For research use only

Application notes

Reconstituted in ddH₂O or PBS at 100 μg/ml.

Protein Sequence

FPMFKRGRCLCIGPGVKAVKVADIEKASIMYPSNNCDKIEVIITLKENKGQRCLNPKSKQ
ARLIKKVERKNF

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Purity	> 98% as analyzed by SDS-PAGE.
Source	HEK 293
MW	8.3 kDa, observed by reducing SDS-PAGE.
Expiration Date	6 months from date of receipt.

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