金斯瑞生物科技
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DATASHEET
Version 20181206

I-TAC/CXCL11, Human

Cat. No.: Z03060-50

Size: 50.0 ug

Synonyms: I-TAC/CXCL11, Human

Description:

I-TAC (Interferon-inducible T-cell α Chemoattractant), also known as CXCL11, is a chemokine belonging to the CXCL subfamily. Along with Interferon-γ induced Protein 10 kDa and Monokine Induced by Interferon-γ, I-TAC is strongly up-regulated by Interferon-γ and binds to the G-protein coupled receptor CXCR3. The expression of CXCR3 is associated with Th1-mediated immune responses and mediates chemotaxis of Th1 cells. I-TAC induces, maintains, and amplifies the inflammatory reactions, and sustains chronic immune responses against self-antigens. Although CXCR3 was thought to be the exclusive receptor of I-TAC initially, more evidence has shown that I-TAC can also bind to CXCR4 and CXCR7, and that I-TAC plays important roles in tumor development and angiostasis.
Recombinant human I-TAC/CXCL11 (rhI-TAC) produced in *E. coli* is a single non-glycosylated polypeptide chain containing 74 amino acids. A fully biologically active molecule, rhI-TAC has a molecular mass of 8.4 kDa analyzed by reducing SDS-PAGE and is obtained by proprietary chromatographic techniques at GenScript.

Amino Acid Sequence:

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00001 MFPMFKRGRC LCIGPGVKAV KVADIEKASI MYPSNNCDKI
00041 EVIITLKENK GQRCLNPKSK QARLIIKKVE RKNF
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Source: *E. coli*

Species: Human

Biological Activity: ED_{50} < 2.5 μg/mL, measured by the FLIPR assay using CHO cells transfected with human CXCR3, the receptor of human CXCL11, corresponding to a specific activity of > 400 units/mg.

Molecular Weight: 8.4 kDa, observed by reducing SDS-PAGE.

Formulation: Lyophilized after extensive dialysis against PBS.

Reconstitution: Reconstituted in ddH_2O at 100 μg/mL.

Purity: > 95% as analyzed by SDS-PAGE and HPLC.

Endotoxin Level: < 0.2 EU/μg, determined by LAL method.

Storage: Lyophilized recombinant human I-TAC/CXCL11 (rhI-TAC) remains stable up to 6 months at lower than -70°C from date of receipt. Upon reconstitution, rhI-TAC remains stable up to 2 weeks at 4°C or up to 3 months at -20°C.

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