

Ck beta 8□1/CCL23, Human

Cat. No.: Z03237-1

Size: 1.0 mg

Synonyms: Ckbeta 8□1/CCL23, Human

Description:

Chemokine (C-C motif) ligand 23 (CCL23) is a small cytokine belonging to the CC chemokine family that is also known as Macrophage inflammatory protein 3 (MIP-3) and Myeloid progenitor inhibitory factor 1 (MPIF-1). CCL23 is predominantly expressed in lung and liver tissue, but is also found in bone marrow and placenta. CCL23 is highly chemotactic for resting T cells and monocytes and slightly chemotactic for neutrophils. It has also been attributed to an inhibitory activity on hematopoietic progenitor cells. CCL23 is a ligand for the chemokine receptor CCR1.

Recombinant human Ck beta 8□1/CCL23 produced in CHO cells is a single polypeptide chain containing 92 amino acids. A fully biologically active molecule, rhCk beta 8□1/CCL23 has a molecular mass of 10.5 kDa analyzed by reducing SDS-PAGE and is obtained by chromatographic techniques at GenScript.

Amino Acid Sequence:

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00001 MLWRRKIGPQ MTLSHAAGFH ATSADCCISY TPRSIPCSLL  
00041 ESYFETNSEC SKPGVIFLTK KRRRFCANPS DKQVQCVRM  
00081 LKLDTRIKTR KN
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Source: CHO

Species: Human

Biological Activity: The EC₅₀ value of human Ck beta 8□1/CCL23 on Ca²⁺ mobilization assay in CHO-K1/Ga15/hCCR1 cells (human Ga15 and human CCR1 stably expressed in CHO-K1 cells) is less than 0.4 µg/ml.

Molecular Weight: 10.5 kDa, observed by reducing SDS-PAGE.

Formulation: Lyophilized after extensive dialysis against PBS.

Reconstitution: Reconstituted in ddH₂O or PBS at 100 µg/ml.

Purity: > 98% as analyzed by SDS-PAGE.

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

Storage: Lyophilized recombinant human Ck beta 8□1/CCL23 remains stable up to 6 months at lower than -70°C from date of receipt. Upon reconstitution, human Ck beta 8□1/CCL23 should be stable up to 1 week at 4°C or up to 2 months at -20°C.