DATASHEET
Version 20181206

MPIF/CCL23(aa46-120), Human

Cat. No.: Z03295-25

Size: 25.0 ug

Synonyms: Macrophage Inflammatory Protein-3, CCL23, MPIF-1, Ck-beta8, MIP-3

Description:

Myeloid progenitor inhibitory factor 1 (MPIF-1), also known as Chemokine (C-C motif) ligand 23 (CCL23) is a small cytokine belonging to the CC chemokine family. MPIF-1 is predominantly expressed in lung and liver tissue, but is also found in bone marrow and placenta. It is also expressed in some cell lines of myeloid origin. It is highly chemotactic for resting T cells and monocytes and slightly chemotactic for neutrophils. MPIF-1 has been shown to inhibit colony formation of bone marrow myeloid immature progenitors. It has also been attributed to an inhibitory activity on hematopoietic progenitor cells. MPIF-1 is a ligand for the chemokine receptor CCR1.
Recombinant human MPIF-1/CCL23 (aa46-120) produced in *CHO* cells is a single polypeptide chain containing 75 amino acids. A fully biologically active molecule, rhMPIF-1/CCL23 (aa46-120) has a molecular mass of 11.3 kDa analyzed by reducing SDS-PAGE and is obtained by chromatographic techniques at GenScript.

Amino Acid Sequence:

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00001 RFHATSADCC ISYTPRSIPC SLLESYFETN SECSKPGVIF
00041 LTKKGRRFCA NPSDKQVQVC VRMLKLDTRI KTRKN
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Source: *CHO*

Species: Human

Biological Activity: The EC_{50} value of human MPIF-1/CCL23 (aa46-120) on Ca^{2+} mobilization assay in CHO-K1/ Gα15/hCCR1 cells (human Gα15 and human CCR1 stably expressed in CHO-K1 cells) is less than 1 μg/ml.

Molecular Weight: 11.3 kDa, observed by reducing SDS-PAGE.

Formulation: Lyophilized after extensive dialysis against PBS.

Reconstitution: Reconstituted in ddH_2O or PBS at 100 μg/ml.

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

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

Storage: Lyophilized recombinant Human MPIF/CCL23 (aa46-120) remains stable up to 6 months at lower than -70°C from date of receipt. Upon reconstitution, Human MPIF/CCL23 (aa46-120) should be stable up to 1 week at 4°C or up to 3 months at -20°C.

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