

Active Recombinant Human CCL23 Protein (75 aa)

Cat. No. CCL23-217C **Lot. No.** (See product label)

SPECIFICATION

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|-------------------------|---|
| Product Overview | 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. |
| Species | Human |
| Source | CHO |
| ProteinLength | 75 |
| 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. |
| Form | Sterile Filtered White lyophilized (freeze-dried) powder. |
| Bio-activity | The EC50 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 |

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|-----------------------|---|
| | µg/mL. |
| Molecular Mass | 11.3 kDa, observed by reducing SDS-PAGE. |
| AA Sequence | RFHATSADCCISYTPRSIPCSLLESYFETNSECSKPGVIFLTKKGRRFCANPSDKQVQ VCVRMLKLDTRIKTRKN |
| Endotoxin | < 0.2 EU/µg, determined by LAL method. |
| Purity | > 95% as analyzed by SDS-PAGE. |
| Storage | Lyophilized recombinant Human MPIF/CCL23 (aa46-120) remains stable up to 6 months at -80 centigrade from date of receipt. Upon reconstitution, Human MPIF/CCL23 (aa46-120) should be stable up to 1 week at 4 centigrade or up to 3 months at -20 centigrade. |
| Storage Buffer | Lyophilized after extensive dialysis against PBS. |
| Reconstitution | Reconstituted in ddH ₂ O or PBS at 100 µg/mL. |

GENE INFORMATION

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|------------------------|---|
| Gene Name | CCL23 chemokine (C-C motif) ligand 23 [Homo sapiens] |
| Official Symbol | CCL23 |
| Synonyms | CCL23; chemokine (C-C motif) ligand 23; SCYA23, small inducible cytokine subfamily A (Cys Cys), member 23; C-C motif chemokine 23; Ckb 8; CKb8; MIP 3; MPIF 1; hmrp-2a; C6 beta-chemokine; small-inducible cytokine A23; macrophage inflammatory protein 3; myeloid progenitor inhibitory factor 1; small inducible cytokine subfamily A (Cys-Cys), member 23; MIP3; Ckb-8; MIP-3; MPIF-1; SCYA23; Ckb-8-1; |

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|----------------|------------|
| | CK-BETA-8; |
| Gene ID | 6368 |
| mRNA Refseq | NM_005064 |
| Protein Refseq | NP_005055 |
| MIM | 602494 |
| UniProt ID | P55773 |

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