

## Active Recombinant Human CCL23 Protein (92 aa)

**Cat. No.** CCL23-296C    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|-------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | 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.                                                                                                                                                                                                                                                                                          |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Source</b>           | CHO                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>ProteinLength</b>    | 92                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Description</b>      | 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. |
| <b>Form</b>             | Sterile Filtered White lyophilized (freeze-dried) powder.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Bio-activity</b>     | The EC <sub>50</sub> value of human Ck beta 8-1/CCL23 on Ca <sup>2+</sup> 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.                                                                                                                                                                                                                                                                                                                                                                        |

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|                       |                                                                                                                                                                                                                                                       |
|-----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Molecular Mass</b> | 10.5 kDa, observed by reducing SDS-PAGE.                                                                                                                                                                                                              |
| <b>AA Sequence</b>    | MLWRRKIGPQMTLSHAAGFHATSADCCISYTPRSIPCSLLESYFETNSECSKPGVIFL<br>TKKGRRFCANPSDKQVQVCVRMLKLDTRIKTRKN                                                                                                                                                      |
| <b>Endotoxin</b>      | < 0.2 EU/μg, determined by LAL method.                                                                                                                                                                                                                |
| <b>Purity</b>         | > 98% as analyzed by SDS-PAGE.                                                                                                                                                                                                                        |
| <b>Storage</b>        | Lyophilized recombinant human Ck beta 8-1/CCL23 remains stable up to 6 months at -80 centigrade from date of receipt. Upon reconstitution, human Ck beta 8-1/CCL23 should be stable up to 1 week at 4 centigrade or up to 2 months at -20 centigrade. |
| <b>Storage Buffer</b> | Lyophilized after extensive dialysis against PBS.                                                                                                                                                                                                     |
| <b>Reconstitution</b> | Reconstituted in ddH <sub>2</sub> O or PBS at 100 μg/mL.                                                                                                                                                                                              |

## GENE INFORMATION

|                        |                                                                                                                                                                                                                                                                                                                                                                                                                        |
|------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>       | CCL23 chemokine (C-C motif) ligand 23 [ Homo sapiens ]                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Official Symbol</b> | CCL23                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Synonyms</b>        | 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; hmrb-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; CK-BETA-8; |
| <b>Gene ID</b>         | 6368                                                                                                                                                                                                                                                                                                                                                                                                                   |

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|----------------|---------------------------|
| mRNA Refseq    | <a href="#">NM_005064</a> |
| Protein Refseq | <a href="#">NP_005055</a> |
| MIM            | <a href="#">602494</a>    |
| UniProt ID     | <a href="#">P55773</a>    |

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