

PRODUCT DATA SHEET



Bioworld Technology, Inc.

Recombinant Ck beta 8-1/CCL23, Human

Catalog Number: BK0190-1mg

Source: CHO

Quantity: 1mg

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.

Molecular Weight:

10.5 kDa, observed by reducing SDS-PAGE.

Purity:

> 98% as analyzed by SDS-PAGE.

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.

Physical Appearance:

Sterile Filtered White lyophilized (freeze-dried) powder.

Formulation:

Lyophilized after extensive dialysis against PBS.

AA Sequence:

MLWRRKIGPQMTL-
SHAAGFHATSADCCISYTPRSIP-
CSLLESYFETNSECSKPGVIFLTKKGRRF-
CANPSDKQVQVCVRMLKLDTRIKTRKN

Endotoxin:

< 0.2 EU/µg, determined by LAL method.

Reconstitution:

Reconstituted in ddH₂O or PBS at 100 µg/ml.

Storage:

Lyophilized recombinant human Ck beta 8-1/CCL23 remains stable up to 6 months at -80 °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.

Usage:

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