

PRODUCT DATA SHEET



Bioworld Technology, Inc.

Recombinant MPIF-1/CCL23, Human

Catalog Number: BK0274-50µg

Source: CHO

Quantity: 50µg

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 produced in CHO cells is a single polypeptide chain containing 99 amino acids. A fully biologically active molecule, rhMPIF-1/CCL23 has a molecular mass of 12 kDa analyzed by reducing SDS-PAGE and is obtained by chromatographic techniques at GenScript.

Molecular Weight:

12 kDa, observed by reducing SDS-PAGE.

Purity:

> 98% as analyzed by SDS-PAGE.

Biological Activity:

The EC₅₀ value of human MPIF-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 2 µg/ml.

Physical Appearance:

Sterile Filtered White lyophilized (freeze-dried) powder.

Formulation:

Lyophilized after extensive dialysis against PBS.

AA Sequence:

RVTKDAETEFMM-
SKLPLENPVLLDRFHATSADCCISYTPRSIP-
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 MPIF-1/CCL23 remains stable up to 6 months at -80 °C from date of receipt. Upon reconstitution, human MPIF-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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