

PRODUCT DATA SHEET



Bioworld Technology, Inc.

Recombinant MIP-5/CCL15 (92aa), Human

Catalog Number: BK0140-1mg

Source: Escherichia coli.

Quantity: 1mg

Description:

Macrophage Inflammatory Protein-5 (MIP-5/CCL15) is a chemokine originally identified in the human hemofiltrate, thus it is also named Hemofiltrate CC Chemokine-2 (HCC-2). MIP-5 belongs to the CCL chemokine family, and its receptors are G-protein coupled receptors CCR1 and CCR3, with CCR1 being the major one. MIP-5 is mainly expressed in heart and skeletal muscle, and CCR1 is expressed on Th1 and Th2 cells in human cord blood lymphocytes. In vivo, MIP-5 promotes the accumulation of immature myeloid cells and the expansion of metastatic foci in the liver. MIP-5 contributes to severe asthma, sarcoidosis, and atherosclerosis; however, MIP-5 can also inhibit stem cell proliferation, implicating its therapeutic potential as an alternative to high dose chemotherapy. Recombinant human MIP-5/CCL15 (rhMIP-5/CCL15) produced in E.coli is a single non-glycosylated polypeptide chain containing 92 amino acids. A fully biologically active molecule, rhMIP-5/CCL15 has a molecular mass of 10.2 kDa analyzed by reducing SDS-PAGE and is obtained by chromatographic techniques at GenScript.

Molecular Weight:

10.2 kDa, observed by reducing SDS-PAGE.

Purity:

> 95% by SDS-PAGE analysis.

Biological Activity:

ED50 < 2 µg/mL, measured by the FLIPR assay using CHO cells transfected with human CCR1, the receptor of human CCL15, corresponding to a specific activity

of > 500 units/mg.

Physical Appearance:

Sterile Filtered White lyophilized (freeze-dried) powder.

Formulation:

Lyophilized after extensive dialysis against PBS.

AA Sequence:

QFTNDAETELMMSKLPLENPVVLSNFH-
FAADCCTSYISQSIPCSLMKSYFETSSECS-
KPGVIFLT-
KKGRQVCAKPSGPGVQDCMKKLPYSI

Endotoxin:

< 0.2 EU/µg, determined by LAL method.

Reconstitution:

Reconstituted in ddH₂O at 100 µg/mL.

Storage:

Lyophilized recombinant human MIP-5/CCL15 (rhMIP-5/CCL15) remains stable up to 6 months at -80 °C from date of receipt. Upon reconstitution, rhMIP-5/CCL15 remains stable up to 2 weeks at 4 °C or up to 3 months at -20 °C.

Usage:

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