

PRODUCT DATA SHEET



Bioworld Technology, Inc.

Recombinant MCP-5/CCL12, Mouse

Catalog Number: BK0266-1mg

Source: CHO

Quantity: 1mg

Description:

Monocyte Chemotactic Protein-5 (MCP-5), also known as Chemokine (C-C motif) ligand 12 (CCL12), is a small cytokine belonging to the CC chemokine family that has been characterized in mice. Due to its similarity with human chemokine MCP-1, sometimes it is called MCP-1-related chemokine. MCP-5 specifically attracts eosinophils, monocytes and lymphocytes. It can signal through the CCR2 receptor. Recombinant Mouse MCP-5/CCL12 produced in CHO cells is a polypeptide chain containing 82 amino acids. A fully biologically active molecule, rmMCP-5/CCL12 has a molecular mass of 11 kDa analyzed by reducing SDS-PAGE and is obtained by chromatographic techniques at GenScript.

Molecular Weight:

9.3-11 kDa, observed by reducing SDS-PAGE.

Purity:

> 98% as analyzed by SDS-PAGE.

Biological Activity:

The EC50 value of mouse MCP-5/CCL12 on Ca²⁺ mobilization assay in CHO-K1/G 15/mCCR2 cells (human G 15 and mouse CCR2 stably expressed in CHO-K1 cells) is less than 0.5 µg/ml.

Physical Appearance:

Sterile Filtered White lyophilized (freeze-dried) powder.

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Formulation:

Lyophilized after extensive dialysis against PBS.

AA Sequence:

GPDAVSTPVTCCYNVVKQKIHVRKLKSYR-
RITSSQCPREAVIFRTIL-
DKEICADPKEKWVKNSINHLDKTSQTFILEP-
SCLG

Endotoxin:

< 0.2 EU/µg, determined by LAL method.

Reconstitution:

Reconstituted in ddH₂O or PBS at 100 µg/ml.

Storage:

Lyophilized recombinant Mouse MCP-5/CCL12 remains stable up to 6 months at -80 °C from date of receipt. Upon reconstitution, Mouse MCP-5/CCL12 should be stable up to 1 week at 4 °C or up to 2 months at -20 °C.

Usage:

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