

PRODUCT DATA SHEET



Bioworld Technology, Inc.

Recombinant MCP-3/MARC/CCL7, Mouse

Catalog Number: BK0265-1mg

Source: CHO

Quantity: 1mg

Description:

Chemokine (C-C motif) ligand 7 (CCL7) is a small cytokine that was previously called monocyte-specific chemokine 3 (MCP-3). Due to CCL7 possessing two adjacent N-terminal cysteine residues in its mature form, it is classified within the subfamily of chemokines known as CC chemokines. CCL7 specifically attracts monocytes, and regulates macrophage function. It is produced by certain tumor cell lines and by macrophages. This chemokine is located on chromosome 17 in humans, within a large cluster containing many other CC chemokines and is most closely related to CCL2. CCL7 can signal through the CCR1, CCR2 and CCR3 receptors. Recombinant Mouse MCP-3/MARC/CCL7 produced in CHO cells is a polypeptide chain containing 74 amino acids. A fully biologically active molecule, rmMCP 3/CCL7 has a molecular mass of 8-12 kDa analyzed by reducing SDS-PAGE and is obtained by chromatographic techniques at GenScript.

Molecular Weight:

8~12 kDa, observed by reducing SDS-PAGE.

Purity:

> 98% as analyzed by SDS-PAGE.

Biological Activity:

The EC₅₀ value of mouse MCP 3 MARC/CCL7 on Ca²⁺ mobilization assay in CHO-K1/ Gα15/mCCR2 cells (human Gα15 and mouse CCR2 stably expressed in CHO-K1 cells) is less than 1 µg/ml.

Physical Appearance:

Sterile Filtered White lyophilized (freeze-dried) powder.

Formulation:

Lyophilized after extensive dialysis against PBS.

AA Sequence:

QPDGPNASTCCYVKKQKIPKRNLKSYR-
RITSSRCPWEAVI-
FKTKKGMVEVCAEAHQKWVEEAIAYLDMKTPTP
KP

Endotoxin:

< 0.2 EU/µg, determined by LAL method.

Reconstitution:

Reconstituted in ddH₂O or PBS at 100 µg/ml.

Storage:

Lyophilized recombinant Mouse MCP-3/MARC/CCL7 remains stable up to 6 months at -80 °C from date of receipt. Upon reconstitution, Mouse MCP-3/MARC/CCL7 should be stable up to 1 week at 4 °C or up to 3 months at -20 °C.

Usage:

This material is offered by USA Bioworld biotech for research, laboratory or further evaluation purposes. For research use only.