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MCP1 Human, HEK

Monocyte Chemotactic Protein-1/MCAF (CCL2) Human Recombinant, HEK CHK0111

Product Overview

Name	MCP1 Human, HEK

Description

Monocyte Chemotactic Protein-1/MCAF (CCL2) Human Recombinant, HEK

Accession (Primary)	P13500

Synonyms

CCL2, C-C motif chemokine 2, GDCF-2, HSMCR30, JE, HC11, MCAF, MCP-1, MCP1, Scya2, Sigje, SMC-CF, Immediate-early serum-responsive protein JE, Monocyte chemoattractant protein 1, Small-inducible cytokine A2.

Introduction

Chemokine (C-C motif) ligand 2 (CCL2) is a small cytokine belonging to the CC chemokine family that is also known as monocyte chemotactic protein-1 (MCP-1). It is found at the site of tooth eruption and bone degradation. In the bone, CCL2 is expressed by mature osteoclasts and osteoblasts and is under the control of nuclear factor ?B (NF?B).CCL2 recruits immune cells, such as monocytes, to sites of tissue injury and infection.This chemokine is produced as a protein precursor containing signal peptide of 23 amino acids and a mature peptide of 76 amino acids. It is a monomeric polypeptide, with a molecular weight of approximately 13kDa. As with many other CC chemokines, CCL2 is located on chromosome 17 in humans.The cell surface receptors that bind CCL2 are CCR2 and CCR5

Source

HEK293 Cells.

Physical Appearance

Sterile filtered colorless solution.

Formulation

The MCP1 solution (0.25mg/1ml) contains phosphate buffered saline (pH7.4) and 10% glycerol.

Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

Purity

Greater than 90.0% as determined by SDS-PAGE.

Amino acid sequence

QPDAINAPVT CCYNFTNRKI SVQRLASYRR ITSSKCPKEA VIFKTIVAKE ICADPKQKWV QDSMDHLDKQ TQTPKT

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Biological Activity

Measured its ability to chemoattract using THP-1 human acute monocytic leukemia cells. The ED50 range ≤ 30 ng/ml.

Precautions

MCP1 Human, HEK is for research use only and not for use in diagnostic or therapeutic procedures.

Target Information: (P13500)