

C-C motif chemokine 2 (CCL2), Human

Cat.no. PK0300

Product size: 5ug 25ug 1mg

Source: E. coli

Species: Human

Biological Activity: The EC₅₀ value of human MCP-1/CCL2 on Ca²⁺ mobilization assay in CHO-K1/Gα15/hCCR2 cells (human Gα15 and human CCR2 stably expressed in CHO-K1 cells) is less than 1 μg/ml.

Molecular Weight: 8.7 kDa, observed by reducing SDS-PAGE.

Formulation: Lyophilized after extensive dialysis against PBS.

Reconstitution: Reconstituted in ddH₂O or PBS at 100 μg/ml.

Purity: > 97% by SDS-PAGE analyses.

Endotoxin Level: < 0.2 EU/μg, determined by LAL method.

Storage: Lyophilized recombinant Human MCP-1/CCL2 remains stable up to 6 months at lower than -70°C from date of receipt. Upon reconstitution, human MCP-1/CCL2 should be stable up to 1 week at 4°C or up to 3 months at -20°C.

Description: Chemokine (C-C motif) ligand 2 (CCL2) is also referred to as monocyte chemotactic protein 1 (MCP1) and small inducible cytokine A2. CCL2 is a small cytokine that belongs to the CC chemokine family. CCL2 recruits monocytes, memory T cells, and dendritic cells to the sites of inflammation produced by either tissue injury or infection. Human CCL2 cDNA encodes a 99 amino acid (aa) precursor protein with a 23 aa signal peptide and a 76 aa mature protein. Human CCL2 shares 78-79% aa identity with canine, porcine and equine CCL2, while mouse and rat express a form of CCL2 that is extended by 49 aa and shares only ~56% aa identity within the common region. Recombinant Human MCP-1/CCL2 produced in E.coli is a single non-glycosylated polypeptide chain containing 76 amino acids.

Amino Acid Sequence:

Gln24-Thr99 (Accession #:P13500)

Synonyms: C-C motif chemokine 2, HC11, Monocyte chemoattractant protein 1, Monocyte chemotactic and activating factor, MCAF, Monocyte chemotactic protein 1, MCP-1, Monocyte secretory protein JE, Small-inducible cytokine A2, CCL2, MCP1, SCYA2

Note: For research use only, not for use in diagnostic procedure.