

Rat MCP 1 Recombinant Protein



RPPB1190

Product Information Protein Information

Product SKU:

RPPB1190

Accession:

P14844

Host:

Escherichia Coli.

Protein description:

Monocyte Chemotactic Protein-1 Rat Recombinant produced in E.Coli is a non-glycosylated, Polypeptide chain containing 125 amino acids and having a molecular mass of 14.1 kDa. The MCP-1 is purified by proprietary chromatographic techniques.

Appearance:

Sterile Filtered White lyophilized (freeze-dried) powder.

Synonyms:

Small inducible cytokine A2, CCL2, Monocyte chemotactic protein 1, MCP-1, Monocyte chemoattractant protein 1, Monocyte chemotactic and activating factor, MCAF, Monocyte secretory protein JE, HC11, chemokine (C-C motif) ligand 2, MCP1, SCYA2, GDCF-2, SMC-CF, HSMCR30, MGC9434, GDCF-2 HC11, Immediate-early serum-responsive JE protein.

Formulation:

The protein was lyophilized from a concentrated (1mg/ml) sterile solution containing no additives.

Purity:

Greater than 98.0% as determined by SDS-PAGE.

Solubility:

It is recommended to reconstitute the lyophilized Monocyte Chemotactic Protein-1 in sterile 18MΩ-cm H₂O not less than 100µg/ml, which can then be further diluted to other aqueous solutions.

Stability:

Lyophilized MCP-1 although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution CCL2 should be stored at 4°C between 2-7 days and for future use below -18°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.

Amino Acid Sequence:

QPDVAVNAPLT CCYSFTGKMI PMSRLENYKR ITSSRCPEA VVFVTKLKRE ICADPNKEWV QKYIRKLDQN
QVRSETTVFY KIASLTRTSA PLNVNLTHKS EANASTLFST TTSSTSVEVT SMTEN.

Biological Activity:

ED₅₀ = 1-10ng/ml corresponding to a Specific Activity of 100,000-1,000,000IU/mg. The biological activity was determined by measuring the dose dependent chemotaxis with human THP-1 cells. The optimal concentration should be determined for each specific application by an initial dose-response assay.