

Rat MCP-1 / CCL2 / MCAF

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-C

PLEASE NOTE: ALWAYS CENTRIFUGE VIAL BEFORE OPENING

Size	Order #	Lot #	Expiry Date
2 µg	1610.970.002		
10 µg	1610.970.010		
1 mg	1610.970.199		

Please enquire for bulk quantities and other vial sizes

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.

- **Source** *E. Coli*
- **Purity** ≥ 98 % (SDS-PAGE)
- **Endotoxin level** ≤ 0.1ng/µg (≤ 1EU/µg)
- **Buffer** The protein was lyophilized from a concentrated (1mg/ml) sterile solution containing no additives*
- **Physical state** Sterile filtered, lyophilized

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.

Reconstitution

We recommend a quick spin followed by reconstitution in sterile water to a concentration of at least 100 µg/ml, which can then be further diluted to other aqueous solutions. Do not vortex.

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 avoid repeated freeze-thaw cycles.**

Amino Acid Sequence

QPDAVNAPLT CCYSFTGKMI PMSRLENYKR ITSSRCPKEA VVFVTKLKRE ICADPNKEWV QKYIRKLDQN
QVRSETTVFY KIASTLRTSA PLNVNLTHKS EANASTLFST TTSSTSVEVT SMTEN

Usage: For research use only. Not for use in diagnostic or therapeutic procedures. Not for human use.

*The Buffer may vary depending on the Lot #. Please contact our technical support if you have specific requirements.