



Recombinant Rat MCP-1 / CCL2
(Monocyte Chemotactic Protein-1)

Catalog Number: 300-22

Accession Number: PI4844

Specifications and Uses:

Alternate Names: CCL2, JE, MCAF

Description:

Monocyte Chemotactic Protein 1 (MCP-1), also known as CCL2, is thought to be produced by injured or infected tissues. MCP-1 signals through G protein-coupled receptors, CCR2 and CCR4, to recruit memory T cells, monocytes and dendritic cells. Recombinant rat MCP-1 is a non-glycosylated protein, containing 125 amino acids, with a molecular weight of 14.1 kDa.

Source: *E.coli*

Physical Appearance: Sterile filtered white lyophilized (freeze-dried) powder.

Formulation and Stability:

Recombinant rat MCP-1 is lyophilized with no additives.

Lyophilized product is very stable at -20°C. Reconstituted material should be aliquoted and frozen at -20°C. It is recommended that a carrier protein (0.1% HSA or BSA) is added for long term storage.

Reconstitution:

Centrifuge vial before opening. When reconstituting the product, gently pipet and wash down the sides of the vial to ensure full recovery of the protein into solution. It is recommended to reconstitute the lyophilized product with sterile water at a concentration of 0.1 mg/mL, which can be further diluted into other aqueous solutions.

Protein Content and Purity (typically ≥ 98%) determined by:

Reducing and Non-reducing SDS-PAGE, UV spectroscopy at 280 nm

Endotoxin Level:

Measured by kinetic LAL analysis and is typically ≤ 1 EU/μg protein.

Biological Activity:

The activity is determined by the ability to chemoattract human monocytes or THP-1 cells at 4 - 15 ng/mL.

AA Sequence:

QPDAVNAPLT CCYSFTGKMI PMSRLENYKR ITSSRCPKEA VVFTVTKLKRE ICADPNKEWV QKYIRKLDQN
QVRSETTVFY KIASLRTSA PLNVNLTHKS EANASTLFST TTSSTSVEVT SMTEN

THIS PRODUCT IS FOR RESEARCH USE ONLY AND IS NOT FOR USE IN HUMANS!

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