GEMINI BIO-PRODUCTS
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Product Usage

Product: **Recombinant Mouse MCP-1 (CCL2)**
Cat #: 300-336P
Powder

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. Alternate names: CCL2, JE, MCAF
MW	Non-glycosylated protein, containing 125 amino acids, with a molecular weight of 13.8 kDa.
Physical Appearance	Sterile filtered white lyophilized (freeze-dried) powder.
Source	*E. coli*
Formulation	Recombinant mouse MCP-1 is lyophilized with no additives.
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.
Stability	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.
Biological Activity	The activity is determined by its ability to chemoattract human PBMCs or THP-1 cells at 4 - 15 ng/mL.
Endotoxin Level	Measured by kinetic LAL analysis and is typically ≤ 1 EU/µg protein.
AA Sequence	QPDAVNAPLT CCYSFTSKMI PMSRLESYKR ITSSRCPKEA VVFVTKLKRE VCADPKKEWV QTYIKNLDRN QMRSEPTTLF KTASALRSSA PLNVKLTRKS EANASTTFST TTSSTSVGVT SVTVN

Purity greater than 98% determined by HPLC, Reducing and Non-reducing SDS-PAGE, UV spectroscopy at 280 nm.

Protein content determined by HPLC, Reducing and Non-reducing SDS-PAGE, UV spectroscopy at 280 nm.

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