

BACKGROUND

Monocyte Chemoattractant Protein 2 (MCP-2), also known as CCL8, is implicated in allergic responses through its ability to activate mast cells, eosinophils, and basophils. MCP-2 is known to signal through several G protein-coupled receptors including, CCR1, CCR2B, and CCR5.

Recombinant mouse MCP-2 is a non-glycosylated protein, containing 74 amino acids and having a molecular mass of 8.5 kDa.

Alternative Names:

CCL8, HC14

Amino Acid Sequence:

GPDKAPVTCC FHVLLKLIPL RVLKSYERIN NIQCPMEAVV
FQTKQGMSLC VDPTQKWSE YMEILDQKSQ ILQP

TECHNICAL INFORMATION

Source: *E.coli*

Physical Appearance:

Sterile Filtered white lyophilized (freeze-dried) powder.

Formulation:

Recombinant mouse MCP-2 is lyophilized with no additives.

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.

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 determined by:

- UV spectroscopy at 280 nm
- RP-HPLC calibrated against a known standard
- Quantitation against a known standard via reducing and non-reducing SDS-PAGE gels.

Endotoxin Level:

Endotoxin level, as measured by LAL analysis, is <0.01ng/ug or <0.1EU/ug.

Biological Activity:

The activity is determined by its ability to chemoattract human PBMCs at 10-100ng/ml.

Products are for research use only. They are not intended for human, animal, or diagnostic applications.

