

BACKGROUND

Monocyte Chemoattractant Protein 3 (MCP-3), also called CCL7, is produced by macrophages and some tumor cell lines. MCP-3 signals through three different G protein-coupled receptors, CCR1, CCR2, and CCR3. CCL7 chemoattracts monocytes and can regulate macrophage function.

Recombinant human MCP-3 is a non-glycosylated protein, containing 76 amino acids and having a molecular weight of 9 kDa.

Alternative Names:

CCL7, MARC

Amino Acid Sequence:

QPVGINSTTT CCYRFINKKI PKQRLESYRR TTSSHCPREA
VIFKTKLDKE ICADPTQKWV QDFMKHLDDK TQTPKL

TECHNICAL INFORMATION

Source: *E.coli*

Physical Appearance:

Sterile Filtered white lyophilized (freeze-dried) powder.

Formulation:

Recombinant human MCP-3 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 biological activity is determined by the ability of MCP-3 to chemoattract human neutrophils and is typically less than 100 ng/mL.

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

