Mouse CCL2 / MCP-1 / MCP1 Protein (His Tag), Biotinylated

Catalog Number: **50368-M08B-B**

General Information

Gene Name Synonym:

AI323594; HC11; JE; MCAF; MCP-1; MCP1; Scya2; Sigje; SMC-CF

Protein Construction:

A DNA sequence encoding the mouse CCL2 (NP_035463.1) (Met1-Asn148) was expressed with a C-terminal polyhistidine tag. The purified protein was biotinylated in vitro.

Source: Mouse

Expression Host: Baculovirus-Insect cells

QC Testing

Purity: > 95 % as determined by SDS-PAGE

Endotoxin:

< 1.0 EU per μg of the protein as determined by the LAL method

Predicted N terminal: Gln 24

Molecular Mass:

The mouse CCL2 consists of 135 amino acids and predicts a molecular mass of 15.2 kDa. The apparent molecular mass of the protein is approximately 27 kDa in SDS-PAGE under reducing conditions.

Formulation:

Lyophilized from sterile PBS, pH 7.4.

Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Specific concentrations are included in the hardcopy of COA. Please contact us for any concerns or special requirements.

Usage Guide

Stability & Storage:
Samples are stable for twelve months from date of receipt at -20℃ to -80℃.

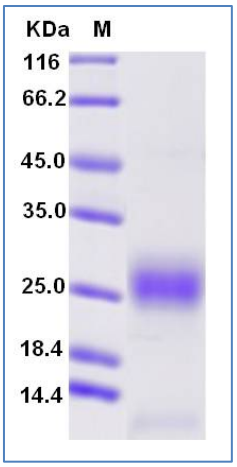
Store it under sterile conditions at -20℃ to -80℃ upon receiving. Recommend to aliquot the protein into smaller quantities for optimal storage.

Avoid repeated freeze-thaw cycles.

Reconstitution:

Detailed reconstitution instructions are sent along with the products.

SDS-PAGE:



Protein Description

Monocyte chemoattractant protein 1 (MCP-1), also called CCL2, belongs to a group of CC chemokines located in chromosome 17q11.2. MCP-1 protein interacts with chemokine C-C motif receptor 2 (CCR2) to activate and recruit monocytes, macrophages, CD4+ T cells and immature dendritic cells to the site of infection [7–9]. The presence of MCP-1 protein in an adequate concentration is important for granuloma formation and M. tuberculosis clearance.

References

3.Vásquez-Loarte T, Trubnykova M, Guio H. Genetic association meta-analysis: a new classification to assess ethnicity using the association of MCP-1 -2518 polymorphism and tuberculosis susceptibility as a model. BMC Genetics. 2015;16:128.