Human CCL2 / MCP-1 / MCP1 Protein (His Tag)

Catalog Number: 10134-H08Y

Sino Biological
Biological Solution Specialist

General Information

Gene Name Synonym:

GDCF-2; HC11; HSMCR30; MCAF; MCP-1; MCP1; SCYA2; SMC-CF

Protein Construction:

A DNA sequence encoding the human CCL2 (NP_002973.1) (Gln24-Thr99) was expressed with a polyhistidine tag at the C-terminus.

Source: Human

Expression Host: Yeast

QC Testing

Purity: > 95 % as determined by SDS-PAGE.

Bio Activity:
Measured by its ability to chemoattract BaF3 mouse pro- B cells transfected with mouse CCR2. The ED50 for this effect is 20-200 ng/mL.

Endotoxin:

Please contact us for more information.

Stability:

Samples are stable for up to twelve months from date of receipt at -70 ℃

Predicted N terminal: Gln 24

Molecular Mass:

The recombinant human CCL2 consists 86 amino acids and predicts a molecular mass of 10.1 kDa.

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

Storage:

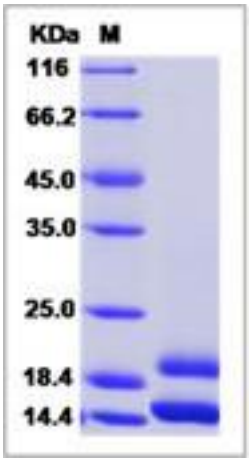
Store it under sterile conditions at -20℃ to -80℃ upon receiving. Recommend to aliquot the protein into smaller quantities for optimal storage.

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.