

Mouse CCL8 / MCP-2 Protein (His & NusA Tag)

Catalog Number: 50181-M24E



Sino Biological Inc.

Biological Solution Specialist

General Information

Gene Name Synonym:

RP23-446K18.1, 1810063B20Rik, AB023418, HC14, MCP-2, Mcp2, Scya8

Protein Construction:

A DNA sequence encoding the mature form of mouse CCL8 (Q9Z121) (Gly 24-Pro 94) was fused with the polyhistidine-tagged NusA tag at the N-terminus.

Source: Mouse

Expression Host: E. coli

QC Testing

Purity: > 85 % as determined by SDS-PAGE

Endotoxin:

Please contact us for more information.

Stability:

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

Predicted N terminal: Met

Molecular Mass:

The recombinant mouse CCL8/NusA chimera consisting of 587 amino acids and has a calculated molecular mass of 66 kDa as estimated in SDS-PAGE under reducing conditions.

Formulation:

Lyophilized from sterile PBS, pH 7.4

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

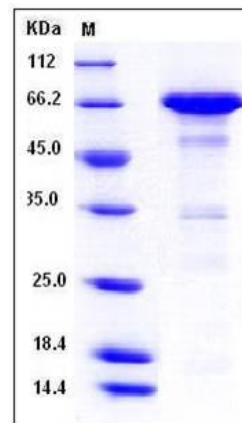
Usage Guide

Storage:

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

Avoid repeated freeze-thaw cycles.

SDS-PAGE:



Reconstitution:

Detailed reconstitution instructions are sent along with the products.

Protein Description

C-C motif chemokine 8, also known as Monocyte chemoattractant protein 2, Monocyte chemotactic protein 2, Small-inducible cytokine A8, CCL8 and MCP-2, is a secreted protein which belongs to the intercrine beta (chemokine CC) family. Highest expression of CCL8 / MCP-2 is found in the small intestine and peripheral blood cells. Intermediate levels of CCL8 / MCP-2 is seen in the heart, placenta, lung, skeletal muscle, thymus, colon, ovary, spinal cord and pancreas. Low levels of CCL8 / MCP-2 is seen in the brain, liver, spleen and prostate. CCL8 / MCP-2 is a chemotactic factor that attracts monocytes, lymphocytes, basophils and eosinophils. It may play a role in neoplasia and inflammatory host responses. CCL8 / MCP-2 can bind heparin. CCL8 / MCP-2 elicits its effects by binding to several different cell surface receptors called chemokine receptors. These receptors include CCR1, CCR2B and CCR5. CCL8 / MCP-2 is also a potent inhibitor of HIV-1 by virtue of its high-affinity binding to the receptor CCR5, one of the major co-receptors for HIV-1. Graft-versus-host disease (GVHD) is a life-threatening complication of hematopoietic stem-cell transplantation (HSCT). CCL8 / MCP-2 is a promising specific serum marker for the early and accurate diagnosis of GVHD.

References

1. van Damme J., et al., 1992, J. Exp. Med. 176:59-65.
2. Kim K.-S., et al., 1996, FEBS Lett. 395:277-82.
3. Proost P., et al., 1996, J. Leukoc. Biol. 59 (1): 67-74.
4. Proost P., et al., 1998, J. Immunol. 160: 4034-41.
5. Blaszczyk J, et al., 2000, Biochemistry. 39 (46): 14075-81.
6. Struyf, S. et al., 2009, Eur J Immunol. 39 (3): 843-57.

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