

Recombinant Mouse CCL4/MIP-1 β Protein

Catalog No.: RP01907 **Recombinant**

Sequence Information

Species	Gene ID	Swiss Prot
Mouse	20303	P14097

Tags

C-His

Synonyms

Ccl4; Mip1b; Scya4; C-C motif chemokine 4; Immune activation protein 2; ACT-2; ACT2; Macrophage inflammatory protein 1-beta; MIP-1-beta; Protein H400; SIS-gamma; Small-inducible cytokine A4

Product Information

Source	Purification
<i>Pichia</i>	> 90% by SDS-PAGE.

Endotoxin

< 1 EU/ μ g of the protein by LAL method

Formulation

Lyophilized from 0.22 μ m filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.

Reconstitution

Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stabilizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

Contact

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Background

CCL4, also known as macrophage inflammatory protein 1 beta (MIP-1 beta), is a 12 kDa beta chemokine that is secreted at sites of inflammation by activated leukocytes, lymphocytes, vascular endothelial cells, and pulmonary smooth muscle cells. CCL4 attracts a variety of immune cells to sites of microbial infection as well as to other pathologic inflammation such as allergic asthma and ischemic myocardium. A CCL4 deficiency in mice promotes the development of autoantibodies, possibly as a result of compromised regulatory T cell recruitment. CCL4 is secreted from activated monocytes as a heterodimer with CCL3/MIP-1 alpha. The first two N-terminal amino acids can be cleaved from human CCL4 by CD26/DPPIV. Both the full length and truncated forms exert biological activity through CCR5. Both forms of CCL4 block HIV-1 infection of T cells by inducing the downregulation of CCR5.

Basic Information

Description

Recombinant Recombinant Mouse CCL4/MIP-1 β Protein is produced by *Pichia* expression system. The target protein is expressed with sequence (Ala24-Asn92) of Mouse CCL4/MIP-1 β (Accession #NP_038680.1) fused with a His tag at the C-terminus.

Bio-Activity

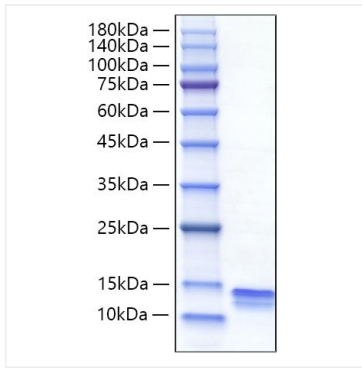
Storage

Store the lyophilized protein at -20°C to -80°C for 12 months.

After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week.

Avoid repeated freeze/thaw cycles.

Validation Data



Recombinant Mouse CCL4/MIP-1 β Protein was determined by SDS-PAGE with Coomassie Blue, showing a band at 10-15kDa.