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Recombinant Mouse CXCL2/MIP-2 Protein

Catalog No.: RP01882 Recombinant

Sequence Information

Species	Gene ID	Swiss Prot
Mouse	20310	P10889

Tags
C-6His

Synonyms
Cxcl2; Mip-2; Mip2; Scyb2;C-X-C motif chemokine 2; Macrophage inflammatory protein 2; MIP2

Product Information

Source	Purification
Pichia	

Calculated MW	Observed MW
8.62 kDa	10-15 kDa

Endotoxin
<0.1EU/μg of the protein by LAL method.

Formulation
Lyophilized from a 0.22 μm filtered solution of PBS, pH 7.4.

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 stablizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

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Background

Macrophage Inflammatory Protein-2 (MIP-2) was originally identified as a heparin-binding protein secreted from a murine macrophage cell line in response to endotoxin stimulation. Based on its protein and DNA sequences, MIP-2 is a member of the alpha (C-X-C) subfamily of chemokines. MIP-2 cDNA encodes a 100 amino acid residue precursor protein from which the amino-terminal 27 amino acid residues are cleaved to generate the mature MIP-2. The protein sequence of murine MIP-2 shows approximately 63% identity to that of murine KC, another murine alpha chemokine whose expression is induced by PDGF. In addition, the protein sequence of MIP-2 is also 60% identical to human GRO beta and GRO gamma. It has been suggested that mouse KC and MIP-2 are the homologs of the human GROs and rat CINCs. Similarly to other alpha chemokines, murine MIP-2 is a potent neutrophil attractant and activator. MIP-2 and KC can bind the murine interleukin 8 type B receptor homologue with high affinity. The expression of MIP-2 was found to be associated with neutrophil influx in pulmonary inflammation and glomerulonephritis, suggesting that MIP-2 may contribute to the pathogenesis of inflammatory diseases.

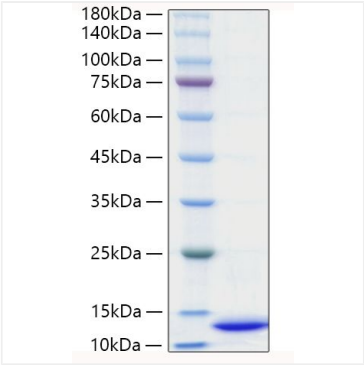
Basic Information

Description
Recombinant Mouse CXCL2/MIP-2 Protein is produced by *Pichia* expression system. The target protein is expressed with sequence (Ala28-Asn100) of Mouse CXCL2/MIP-2 (Accession #NP_033166.1) fused with a His tag at the C-terminus.

Bio-Activity

Storage
Store at -20℃.Store the lyophilized protein at -20℃ to -80 ℃ up to 1 year from the date of receipt.
After reconstitution, the protein solution is stable at -20℃ for 3 months, at 2-8℃ for up to 1 week.
Avoid repeated freeze/thaw cycles.

Validation Data



Recombinant Mouse CXCL2/MIP-2 Protein was determined by SDS-PAGE with Coomassie Blue, showing a band at 10-15 kDa.