

Recombinant Mouse CXCL2/MIP-2 Protein

Catalog No.: RP01882

Sequence Information

Species	Gene ID
Mouse	20310
Swiss Prot	Tags
P10889	C-6His

Synonyms

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

Product Information

Source	Purification
<i>Pichia</i>	≥ 95 % as determined by SDS-PAGE.

Calculated MW	Observed MW
8.62 kDa	10-15 kDa

Endotoxin

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

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 CINC3s.

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.

Activity

Shipping

Lyophilized proteins are shipped at ambient temperature. Liquid proteins are shipped at frozen temperature with dry ice. Upon receipt, store it immediately at the temperature recommended below.

Storage

Store at -20°C

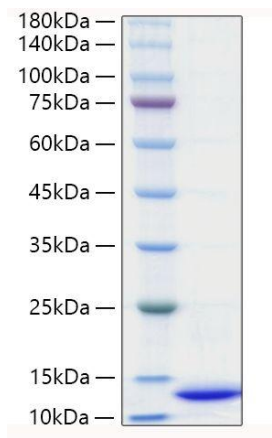
Operational Notes

For your safety and health, please wear a lab coat and disposable gloves for handling.

Contact

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Validation Data



Recombinant Mouse CXCL2/MIP-2 Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.