

# Recombinant Mouse CXCL2/MIP-2 Protein

Catalog Number:PKSM040996



**Note:** Centrifuge before opening to ensure complete recovery of vial contents.

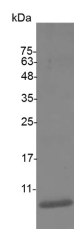
## Description

<b>Synonyms</b>	MIP-2;chemokine ligand 2;C-X-C motif chemokine 2;GRO beta;GRO2;GROB;Gro-beta;Growth-regulated protein beta;Macrophage Inflammatory Protein-2-alpha;melanoma growth stimulatory activity beta;cxc12;MGSA-b;MGSA-beta;MIP2A;MIP2-alpha;SCYB2.
<b>Species</b>	Mouse
<b>Expression Host</b>	E.coli
<b>Sequence</b>	Ala28-Asn100
<b>Accession</b>	P10889
<b>Calculated Molecular Weight</b>	8.7 kDa
<b>Observed molecular weight</b>	11 kDa
<b>Tag</b>	N-His
<b>Bioactivity</b>	Measure by its ability to chemoattract BaF3 cells transfected with human CXCR2. The ED <sub>50</sub> for this effect is < 0.5 ng/mL.

## Properties

<b>Purity</b>	> 98 % as determined by reducing SDS-PAGE.
<b>Endotoxin</b>	< 0.1 EU per µg of the protein as determined by the LAL method.
<b>Storage</b>	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.
<b>Shipping</b>	This product is provided as lyophilized powder which is shipped with ice packs.
<b>Formulation</b>	Lyophilized from sterile PBS, pH 7.4. Normally 5 % - 8 % trehalose, mannitol and 0.01 % Tween80 are added as protectants before lyophilization. Please refer to the specific buffer information in the printed manual.
<b>Reconstitution</b>	Please refer to the printed manual for detailed information.

## Data



> 98 % as determined by reducing SDS-PAGE.

## Background

C-X-C motif chemokine 2 (CXCL2, MIP-2) belongs to the intercrine alpha (chemokine CxC) family. It was originally identified as a heparin-binding protein secreted from a murine macrophage cell line in response to endotoxin stimulation. The expression of mouse MIP-2 is stimulated by endotoxin. The mouse MIP-2 shares approximately 63% aa sequence

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identity with murine KC, another mouse alpha chemokine, which is induced by PDGF. It has been suggested that mouse KC and MIP-2 are the homologs of the human GROs and rat CINC<sub>s</sub>. Chemotactic for human polymorphonuclear leukocytes but does not induce chemokinesis or an oxidative burst. 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.

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