

#### MIP-2/CXCL2

Catalog # PVGS1401

# Specification

### MIP-2/CXCL2 - Product Information

Primary Accession
Species
Mouse

P10889

Sequence

Gly27-Asn100

**Purity** 

> 95% as analyzed by SDS-PAGE

**Endotoxin Level** 

< 0.2 EU/  $\mu g$  of protein by gel clotting method

# **Biological Activity**

The EC<sub>50</sub> value of mouse MIP-2/CXCL2 on Ca<sup>2+</sup> mobilization assay in CHO-K1/G $\alpha$ 15/mCXCR2 cells (human G $\alpha$ 15 and mouse CXCR2 stably expressed in CHO-K1 cells) is less than 1.0 ng/ml.

**Expression System** 

E. coli

Formulation

Lyophilized after extensive dialysis against PBS.

#### Reconstitution

It is recommended that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute the lyophilized powder in  $ddH_2O$  or PBS up to 100  $\mu g/ml$ .

#### **Storage & Stability**

Upon receiving, this product remains stable for up to 6 months at lower than -70°C. Upon reconstitution, the product should be stable for up to 1 week at 4°C or up to 3 months at -20°C. For long term storage it is recommended that a carrier protein (example 0.1% BSA) be added. Avoid repeated freeze-thaw cycles.

## MIP-2/CXCL2 - Additional Information

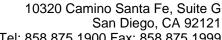
**Gene ID 20310** 

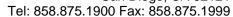
# **Other Names**

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

#### **Target Background**

Chemokine (C-X-C motif) ligand 2 (CXCL2) is a small cytokine belonging to the CXC chemokine family that is also referred to as macrophage inflammatory protein 2-alpha (MIP2-alpha), Growth-regulated protein beta (Gro-beta) and Gro oncogene-2 (Gro-2). CXCL2 is secreted by







monocytes and macrophages and is chemotactic for polymorphonuclear leukocytes and hematopoietic stem cells. CXCL2's amino acid sequence is 90% identical to the amino acid sequence of related chemokine, CXCL1. CXCL2 signals through the CXCR2 receptor.

## MIP-2/CXCL2 - Protein Information

Name Cxcl2

Synonyms Mip-2, Mip2, Scyb2

#### **Function**

Chemotactic for human polymorphonuclear leukocytes but does not induce chemokinesis or an oxidative burst.

**Cellular Location** 

Secreted.

## MIP-2/CXCL2 - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- <u>Immunohistochemistry</u>
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

MIP-2/CXCL2 - Images