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MIP-2/CXCL2

Catalog # PVGS1093

Specification

MIP-2/CXCL2 - Product Information

Primary Accession P10889

Species
Mouse

Sequence
Ala28-Asn100

Purity
> 97% as analyzed by SDS-PAGE
> 97% as analyzed by HPLC

Endotoxin Level
< 1 EU/ µg of protein by LAL method

Biological Activity
Fully biologically active when compared to standard. The biological activity determined by a chemotaxis bioassay using human neutrophils is in a concentration range of 1.0-10.0 ng/ml.

Expression System
E. coli

Theoretical Molecular Weight
7.8 kDa

Formulation **Lyophilized from a 0.2 µm filtered solution in 20 mM PB, pH 7.4, 150 mM NaCl.**

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 sterile distilled water or aqueous buffer containing 0.1 % BSA to a concentration of 0.1-1.0 mg/ml.

Storage & Stability
Upon receiving, this product remains stable for up to 6 months at -70°C or -20°C. Upon reconstitution, the product should be stable for up to 1 week at 4°C or up to 3 months at -20°C. 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
Macrophage Inflammatory Protein 2 (MIP-2) was originally identified as a heparin binding protein

secreted from a mouse macrophage cell line in response to endotoxin stimulation. Based on its protein and DNA sequences, MIP-2 is a member of the alpha (CXC) subfamily of chemokines.Similarly to other alpha chemokines, mouse MIP-2 is a potent neutrophil attractant and activator. MIP-2 and KC can bind the mouse 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.

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
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

MIP-2/CXCL2 - Images