

DATASHEET
Version 20181206**MIP-2/CXCL2, Mouse****Cat. No.:** Z02850-1**Size:** 1.0 mg**Synonyms:** MIP-2/CXCL2, Mouse;**Description:**

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.

Amino Acid Sequence:

00001 AVVASELRQC CLKTLPRVDF KNIQSLSVTP PGPHCAQTEV
00041 IATLKGGQKV CLDPEAPLVQ KIIQKILNKG KAN

Source: *E. coli***Species:** Mouse

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 ng/ml.

Molecular Weight: Approximately 7.8 kDa, a single, non-glycosylated polypeptide chain containing 73 amino acids.

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

Appearance: Sterile Filtered White lyophilized (freeze-dried) powder.

Reconstitution: We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute in sterile distilled water or aqueous buffer containing 0.1 % BSA to a concentration of 0.1-1.0 mg/mL. Stock solutions should be apportioned into working aliquots and stored at ≤ -20 °C. Further dilutions should be made in appropriate buffered solutions.

Purity: > 97 % by SDS-PAGE and HPLC analyses.

Endotoxin Level: Less than 1 EU/µg of rMuMIP-2/CXCL2 as determined by LAL method.

Storage: This lyophilized preparation is stable at 2-8 °C, but should be kept at -20 °C for long term storage, preferably desiccated. Upon reconstitution, the preparation is stable for up to one week at 2-8 °C. For maximal stability, apportion the reconstituted preparation into working aliquots and store at -20 °C to -70 °C. Avoid repeated freeze/thaw cycles.