

Overview

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.
Species	Mouse
Source	<i>E. coli</i>
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.
Sequence	AVVASELRQC CLKTLPRVDF KNIQSLSVTP PGPHCAQTEV IATLKGGQKVCLDPEAPLVQ KIIQKILNKG KAN

Properties

Measured Molecular Weight	Approximately 7.8 kDa, a single, non-glycosylated polypeptide chain containing 73 amino acids.
Purity	> 97 % by SDS-PAGE and HPLC analyses.
Formulation	Lyophilized from a 0.2 µm filtered concentrated solution in 20 mM PB, pH 7.4, 150 mM NaCl.
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 d -20 °C. Further dilutions should be made in appropriate buffered solutions.
Endotoxin Level	Less than 1 EU/µg of rMuMIP-2/CXCL2 as determined by LAL method.
Physical Appearance	Sterile Filtered White lyophilized (freeze-dried) powder.
Usage	This material is for research, laboratory or further evaluation purposes. NOT FOR HUMAN USE.
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.

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