

DATASHEET
Version 20181206**MIP-2/CXCL2, Mouse****Cat. No.:** Z03326-1**Size:** 1.0 mg**Synonyms:** CINC-3; GRO beta; MGSA-beta; MIP-2**Description:**

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.

Recombinant Mouse MIP-2/CXCL2 produced in HEK 293 cells is a polypeptide chain containing 73 amino acids. A fully biologically active molecule, rmMIP-2/CXCL2 has a molecular mass of 7.8 kDa analyzed by reducing SDS-PAGE and is obtained by chromatographic techniques at GenScript.

Amino Acid Sequence:

00001 AVVASELRQK CLKTLPRVDF KNIQSLSVTP PGP HQAQTEV
00041 IATLKGQKQV CLDPEAPLVQ KIIQKILNKG KAN

Source: HEK 293

Biological Activity: The EC₅₀ value of Mouse MIP-2/CXCL2 on Ca²⁺ mobilization assay in CHO-K1/mCXCR2 (mouse CXCR2 stably expressed in CHO-K1 cells) is less than 200 ng/ml.

Molecular Weight: 7.8 kDa, observed by reducing SDS-PAGE.

Formulation: Lyophilized from a 0.2 µm filtered solution in PBS.

Reconstitution: Reconstituted in ddH₂O or PBS at 100 µg/ml.

Purity: > 95% as analyzed by SDS-PAGE.

Endotoxin Level: < 0.2 EU/µg, determined by LAL method.

Storage: Lyophilized recombinant Mouse MIP-2/CXCL2 remains stable up to 6 months at lower than -70°C from date of receipt. Upon reconstitution, Mouse MIP-2/CXCL2 should be stable up to 1 week at 4°C or up to 2 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.