

**DATASHEET**

Version 20181206

**MIP-2/CXCL2, Mouse****Cat. No.:** Z03263-1**Size:** 1.0 mg

**Synonyms:** Growth Regulated Protein/Melanoma Growth Stimulatory Activity (MGSA beta), CXCL2, GRO2

**Description:**

Chemokine (C-X-C motif) ligand 2 (CXCL2) is a small cytokine belonging to the CXC chemokine family that is also called macrophage inflammatory protein 2-alpha (MIP2-alpha), Growth-regulated protein beta (Gro-beta) and Gro oncogene-2 (Gro-2). CXCL2 is 90% identical in amino acid sequence to a related chemokine, CXCL1. CXCL2 is secreted by monocytes and macrophages and is chemotactic for polymorphonuclear leukocytes and hematopoietic stem cells. CXCL2 can signal through the CXCR2 receptor.

Recombinant mouse MIP-2/CXCL2 produced in *E.coli* is a single non-glycosylated polypeptide chain containing 73 amino acids. A fully biologically active molecule, rmMIP-2/CXCL2 has a molecular mass of 8 kDa analyzed by reducing SDS-PAGE and is obtained by chromatographic techniques at GenScript.

**Amino Acid Sequence:**

00001 GAVVASELRG QCLKTLPRVD FKNIQSLSVT PPGPHCAQTE  
00041 VIATLKGGQK VCLDPEAPLV QKIIQKILNK GKAN

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

**Biological Activity:** The EC<sub>50</sub> value of mouse MIP-2/CXCL2 on Ca<sup>2+</sup> mobilization assay in CHO-K1/Gα15/mCXCR2 cells (human Gα15 and mouse CXCR2 stably expressed in CHO-K1 cells) is less than 1 ng/ml.

**Molecular Weight:** 8.0 kDa, observed by reducing SDS-PAGE.

**Formulation:** Lyophilized after extensive dialysis against PBS.

**Reconstitution:** Reconstituted in ddH<sub>2</sub>O 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.