

Active Recombinant Mouse Cxcl2 Protein (73 aa)

Cat. No. Cxcl2-328C **Lot. No.** (See product label)

SPECIFICATION

Product Overview 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.

Species Mouse

Source E.coli

ProteinLength 73

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.

Form Sterile Filtered White lyophilized (freeze-dried) powder.

Bio-activity The EC50 value of mouse MIP-2/CXCL2 on Ca²⁺ 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.

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Molecular Mass	8.0 kDa, observed by reducing SDS-PAGE.
AA Sequence	GAVVASELRCQCLKTLPRVDFKNIQSLSVTPPGPHCAQTEVIATLKGGQKVCLDPEA PLVQKIIQKILNKGKAN
Endotoxin	< 0.2 EU/μg, determined by LAL method.
Purity	> 95% as analyzed by SDS-PAGE.
Storage	Lyophilized recombinant mouse MIP-2/CXCL2 remains stable up to 6 months at -80 centigrade from date of receipt. Upon reconstitution, mouse MIP-2/CXCL2 should be stable up to 1 week at 4 centigrade or up to 2 months at -20 centigrade.
Storage Buffer	Lyophilized after extensive dialysis against PBS.
Reconstitution	Reconstituted in ddH ₂ O or PBS at 100 μg/mL.

GENE INFORMATION

Gene Name	Cxcl2 chemokine (C-X-C motif) ligand 2 [Mus musculus]
Official Symbol	Cxcl2
Synonyms	CXCL2; chemokine (C-X-C motif) ligand 2; C-X-C motif chemokine 2; macrophage inflammatory protein 2; small inducible cytokine subfamily, member 2; GROb; Gro2; Mip2; Scyb; MIP-2; Scyb2; MIP-2a; Mgsa-b; CINC-2a;
Gene ID	20310
mRNA Refseq	NM_009140

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