

Active Recombinant Rat Cxcl2 Protein (73 aa)

Cat. No. Cxcl2-010C **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Rat Cxcl2 Protein without tag was expressed in E. coli.
Species	Rat
Source	E.coli
ProteinLength	73
Description	Rat GRO-beta/MIP-2/CXCL2 has been found to be expressed by cytokine stimulated rat alveolar macrophages and fibroblasts. Based on its protein and DNA sequences, GRO-beta/MIP-2 is a member of the alpha (CXC) subfamily of chemokines. The protein sequence of rat GRO-beta/MIP-2 shares approximately 88% identity with murine MIP2. Characteristic of ELR containing CXC chemokines, GRO-beta/MIP-2 is known to be a potent chemotactic factor for rat neutrophils in vitro and in vivo.
Form	Sterile Filtered White lyophilized (freeze-dried) powder.
Bio-activity	Fully biologically active when compared to standard. Determined by its ability to chemoattract total human neutrophils using a concentration range of 1.0-10.0 ng/mL, corresponding to a Specific Activity of 1×10^5 IU/mg.
Molecular Mass	7.9 kDa, a single, non-glycosylated polypeptide chain containing 73 amino acids.
AA Sequence	VVVASELRCQCLTTLPRVDFKNIQSLTVTPPGPHCAQTEVIATLKDGHEVCLNPEAPL VQRIVQKILNKGKAN

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Endotoxin	Less than 1 EU/μg of rRtMIP-2/CXCL2 as determined by LAL method.
Purity	>98% by SDS-PAGE and HPLC analyses.
Storage	This lyophilized preparation is stable for several weeks at 2-8 centigrade, but should be kept at -20 centigrade for long term storage, preferably desiccated. Upon reconstitution, the preparation is stable for up to one week at 2-8 centigrade. For maximal stability, apportion the reconstituted preparation into working aliquots and store at -20 to -70 centigrade. Avoid repeated freeze/thaw cycles.
Storage Buffer	Lyophilized from a 0.2 μm filtered concentrated solution in PBS, pH 7.4.
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 centigrade. Further dilutions should be made in appropriate buffered solutions.

GENE INFORMATION

Gene Name	Cxcl2 chemokine (C-X-C motif) ligand 2 [Rattus norvegicus]
Official Symbol	Cxcl2
Synonyms	CXCL2; chemokine (C-X-C motif) ligand 2; C-X-C motif chemokine 2; MIP2; CINC-3; macrophage inflammatory protein 2; small inducible cytokine subfamily, member 2; cytokine-induced neutrophil chemoattractant 3; Mip-2; Scyb2;
Gene ID	114105
mRNA Refseq	NM_053647

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Protein Refseq NP_446099

UniProt ID P30348

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