

Active Recombinant Rat Cxcl2 Protein (69 aa)

Cat. No. Cxcl2-387C **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Rat GRO-β/CINC-3/CXCL2 produced in E. coli is a single non-glycosylated polypeptide chain containing 69 amino acids. A fully biologically active molecule, rrGRO-β has a molecular mass of 7.6kDa analyzed by reducing SDS-PAGE and is obtained by chromatographic techniques.
Species	Rat
Source	E.coli
ProteinLength	69
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 shares 90% amino acid sequence with CXCL1/GROα. The GRO proteins are chemotactic for neutrophils and basophils and can activate them through their CXCR1 or CXCR2 receptors.
Form	Sterile Filtered White lyophilized (freeze-dried) powder.
Bio-activity	The EC50 value of Rat GRO-β/CINC-3/CXCL2 on Ca ²⁺ mobilization assay in CHO-K1/Gα15/rCXCR2 cells (human Gα15 and rat CXCR2 stably expressed in CHO-K1 cells) is less than 10 ng/mL.

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Molecular Mass	7.6 kDa, observed by reducing SDS-PAGE.
AA Sequence	SELRCQCLTTLPRVDFKNIQSLTVTPPGPHCAQTEVIATLKDGHEVCLNPEAPLVQRI VQKILNKGKAN
Endotoxin	< 0.2 EU/μg, determined by LAL method.
Purity	> 95% as analyzed by SDS-PAGE.
Storage	Lyophilized recombinant Rat GRO-β/CINC-3/CXCL2 remains stable up to 6 months at -80 centigrade from date of receipt. Upon reconstitution, Rat GRO-β/CINC-3/CXCL2 should be stable up to 1 week at 4 centigrade or up to 3 months at -20 centigrade.
Storage Buffer	Lyophilized after extensive dialysis against PBS.
Reconstitution	Reconstituted in ddH2O or PBS at 100 μg/mL.

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
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UniProt ID	P30348
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