

Recombinant Rat Cxcl3 protein

Cat. No. Cxcl3-627R **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Rat Cxcl3 beta protein was expressed in Escherichia coli.
Species	Rat
Source	E.coli
ProteinLength	68
Description	CXCL3 is belonging to the CXC chemokine family, which is also known as CINC-2 in rat, DCIP-1 in murine, and GRO γ in humans. The functional receptor for CXCL3 has been identified as CXCR2. Similar to other GRO proteins, CXCL3 is potent neutrophil attractants and activators. This chemokine were originally purified from the conditioned medium of rat granulation tissue. In rat, CINC-2 has two isoforms, known as CXCL3 α /CINC-2 α and CXCL3 β /CINC-2 β . CXCL3 α differs from CXCL3 β as DKSS to PSL (98-101) at carboxy-terminal residues.
Form	Lyophilized from a 0.2 μ m filtered concentrated solution in 20 mM PB, pH 7.4, 50 mM NaCl.
Bio-activity	Fully biologically active when compared to standard. The biological activity determined by a chemotaxis bioassay using human CXCR2 transfected murine BaF3 cells is in a concentration range of 5-50 ng/ml.
Molecular Mass	Approximately 7.6 kDa, a single non-glycosylated polypeptide chain containing 68 amino acids.

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AA Sequence	RELRCQCLKTLPRVDFENIQSLTVTPPGPHCTQTEVIATLKDGQEVCLNPQAPRLQKI IQKLLKSPSL
Endotoxin	Less than 1 EU/μg of rRtCINC-2β/CXCL3 as determined by LAL method.
Purity	>96% by SDS-PAGE and HPLC analysis.
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 12 months from date of receipt, -20 to -70 centigrade as supplied. 1 month, 2 to 8 centigrade under sterile conditions after reconstitution. 3 months, -20 to -70 centigrade under sterile conditions after reconstitution.
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	Cxcl3
Official Symbol	Cxcl3
Synonyms	CXCL3; chemokine (C-X-C motif) ligand 3; C-X-C motif chemokine 3; MIP2- alpha/beta; macrophage inflammatory protein 2-alpha/beta; cytokine-induced neutrophil chemoattractant 2; cytokine-induced neutrophil chemoattractant-2; Cinc2; Cinc-2; Gm1960;
Gene ID	171551

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mRNA Refseq	NM_138522
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Protein Refseq	NP_612531
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UniProt ID	Q10746
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