

Active Recombinant Rat Cxcl1 Protein (72 aa)

Cat. No. Cxcl1-011C **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Rat Cxcl1 Protein (72 aa) without tag was expressed in E. coli.
Species	Rat
Source	E.coli
ProteinLength	72
Description	All three isoforms of GRO are CXC chemokines that can signal through the CXCR1 or CXCR2 receptors. The GRO proteins chemoattract and activate neutrophils and basophils.
Form	Sterile Filtered White lyophilized (freeze-dried) powder.
Bio-activity	Fully biologically active when compared to standard. Determined by its ability to chemoattract rat neutrophils using a concentration range of 10.0-100.0 ng/mL, corresponding to a Specific Activity of 1×10^4 IU/mg.
Molecular Mass	7.8 kDa, a single, non-glycosylated polypeptide chain containing 72 amino acids.
AA Sequence	APVANELRCQCLQTVAGIHFKNIQSLKVMPPGPHCTQTEVIATLKNGREACLDPEAP MVQKIVQKMLKGVPK
Endotoxin	Less than 1 EU/μg of rRtGRO/CXCL1 as determined by LAL method.

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Purity	>97% 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 20mM PB, pH 7.4, 150mM NaCl.
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 < -20C. Further dilutions should be made in appropriate buffered solutions.

GENE INFORMATION

Gene Name	Cxcl1 chemokine (C-X-C motif) ligand 1 (melanoma growth stimulating activity, alpha) [Rattus norvegicus]
Official Symbol	Cxcl1
Synonyms	CXCL1; chemokine (C-X-C motif) ligand 1 (melanoma growth stimulating activity, alpha); growth-regulated alpha protein; gro; C-X-C motif chemokine 1; cytokine-induced neutrophil chemoattractant 1; platelet-derived growth factor-inducible protein KC; Gro1; CINC-1;
Gene ID	81503

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mRNA Refseq	NM_030845
Protein Refseq	NP_110472
UniProt ID	G3V6C6

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