

Recombinant Rattus Chemokine (C-X-C motif) Ligand 1 (melanoma growth stimulating activity, alpha)

Cat. No. Cxcl1-1877R **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant RatCxcl1 (68 aa).
Species	Rat
Source	E.coli
Description	Chemokine (C-X-Cmotif) ligand 1 (Cxcl1) is a small cytokine belonging to the CXC chemokinefamily that was previously called GRO1 oncogene, GRO α , KC,Neutrophil-activating protein 3 (NAP-3) and melanoma growth stimulatingactivity, alpha (MSGA- α). In humans, this protein is encoded by the Cxcl1gene.
Form	Lyophilized from a0.2 μ m sterile filtered solution, carrier free.
Molecular Weight	7.6kDa
Purity	> 95% asdetermined by SDS-PAGE analysis.
Endotoxin Level	< 0.1 ng/g ofCXCL1
Biological Activity	Determined by thedose dependent calcium flux in rat neutrophils. The ED50 range is 0.5-2 μ g/ml.
Reconstitution	Centrifuge vialprior to opening. First add sterile distilled water to the vial to fullysolubilize the protein to a concentration of 0.1-1.0 mg/ml. Further dilutionsshould

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be made in low endotoxin medium or buffered solution with heatinactivated FCS or tissue culture grade BSA. Please note that the addition of any carrier protein into this product may produce unwanted endotoxin. This depends upon the particular application employed.

Storage

Store lyophilized protein at 2-4°C and reconstituted protein in working aliquots at -20°C to -80°C. Avoid repeated freeze-thaw cycles.

Official Symbol

Cxcl1

GENE INFORMATION
Gene Name

Cxcl1 chemokine (C-X-C motif) ligand 1 (melanoma growth stimulating activity, alpha) [*Rattus norvegicus*]

Synonyms

Cxcl1; chemokine (C-X-C motif) ligand 1 (melanoma growth stimulating activity, alpha); Gro1; CINC-1; growth-regulated alpha protein; gro; C-X-C motif chemokine 1; cytokine-induced neutrophil chemoattractant 1; platelet-derived growth factor-inducible protein KC

Gene ID

81503

mRNA Refseq

NM_030845

Protein Refseq

NP_110472

UniProt ID

P14095

Chromosome Location

14p22

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Pathway	Chemokine receptorsbind chemokines; Chemokine signaling pathway; Class A/1 (Rhodopsin-like receptors); Cytokines and Inflammatory Response (BioCarta); G alpha (i) signalling events; GPCR downstream signaling; GPCR ligand binding; Legionellosis; NOD-like receptor signaling pathway; Peptide ligand-binding receptors; Salmonella infection; Signal Transduction; Signaling by GPCR
Function	chemokine activity; growth factor activity
PDB rendering based on 1mgs.	

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