

# Active Recombinant Mouse Chemokine (C-X-C motif) Ligand 1

**Cat. No.** Cxcl1-384M    **Lot. No.** (See product label)

## SPECIFICATION

|                            |                                                                                                                                                                                                                                                                                                              |
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| <b>Product Overview</b>    | Recombinant mouse Cxcl1 protein was expressed in E. coli. Arg20-Lys96.                                                                                                                                                                                                                                       |
| <b>Species</b>             | Mouse                                                                                                                                                                                                                                                                                                        |
| <b>Source</b>              | E.coli                                                                                                                                                                                                                                                                                                       |
| <b>Protein Length</b>      | 20-96 a.a.                                                                                                                                                                                                                                                                                                   |
| <b>Description</b>         | Cxcl1 is a small cytokine belonging to the CXC chemokine family that was previously called GRO1 oncogene, GRO $\alpha$ , KC, Neutrophil-activating protein 3 (NAP-3) and melanoma growth stimulating activity, alpha (MSG $\alpha$ - $\alpha$ ).                                                             |
| <b>Form</b>                | Lyophilized from a 0.2 $\mu$ m filtered solution in PBS with BSA as a carrier protein.                                                                                                                                                                                                                       |
| <b>N-terminal Sequence</b> | Arg29                                                                                                                                                                                                                                                                                                        |
| <b>Molecular Weight</b>    | 8 kDa                                                                                                                                                                                                                                                                                                        |
| <b>Activity</b>            | Measured by its ability to induce myeloperoxidase release from cytochalasin B-treated human neutrophils. The ED50 for this effect is typically 0.3-0.9 $\mu$ g/mL. Measured by its ability to chemoattract human CXCR2 transfected BaF3 mouse pro-B cells. The ED50 for this effect is typically 3-15 ng/mL. |
| <b>Endotoxin Level</b>     | <1.0 EU per 1 $\mu$ g of the protein by the LAL method.                                                                                                                                                                                                                                                      |

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| <b>Purity</b>         | >97%,by SDS-PAGE under reducing conditions and visualized by silver stain.                                                                                                                                                                                      |
| <b>Reconstitution</b> | Reconstitute at 100µg/mL in sterile PBS that containing at least 0.1% human or bovine serumalbumin.                                                                                                                                                             |
| <b>Storage</b>        | Use amannual defrost freezer and avoid repeated freeze-thaw cycles. 12 months from date of receipt, -20 to -70°C as supplied. 1month, -20 to -70°C under sterile conditions after reconstitution. 3 months, -70°Cunder sterile conditions after reconstitution. |

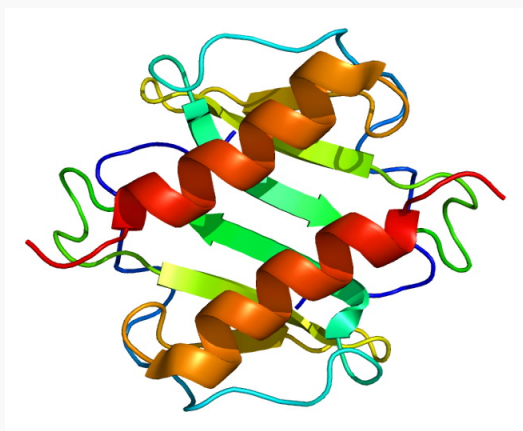
## GENE INFORMATION

|                        |                                                                                                                                                                                                                                                                                                                           |
|------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>       | Cxcl1chemokine (C-X-C motif) ligand 1 [ <i>Mus musculus</i> ]                                                                                                                                                                                                                                                             |
| <b>Official Symbol</b> | Cxcl1                                                                                                                                                                                                                                                                                                                     |
| <b>Synonyms</b>        | Cxcl1; chemokine(C-X-C motif) ligand 1; KC; Fsp; N51; gro; Gro1; Mgsa; Scyb1; OTTMUSP00000018305;growth-regulatedalpha protein; KC/GRO-alpha; (KC/GR)-alpha; GRO1 oncogene; secretory proteinN51; C-X-C motif chemokine 1; platelet-derived growth factor-inducibleprotein KC; Hematopoietic synergistic factor;HSF; KC-T |
| <b>Gene ID</b>         | 14825                                                                                                                                                                                                                                                                                                                     |
| <b>mRNA Refseq</b>     | NM_008173                                                                                                                                                                                                                                                                                                                 |
| <b>Protein Refseq</b>  | NP_032202                                                                                                                                                                                                                                                                                                                 |
| <b>UniProt ID</b>      | P12850                                                                                                                                                                                                                                                                                                                    |
| <b>Chromosome</b>      | 5                                                                                                                                                                                                                                                                                                                         |

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|-------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Location</b>                     |                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Pathway</b>                      | Chemokine receptorsbind chemokines; Chemokine signaling pathway; Class A/1 (Rhodopsin-like receptors); Cytokine-cytokine receptor interaction; Cytokines andInflammatory Response (BioCarta); G alpha (i) signalling events; GPCRdownstream signaling; GPCR ligand binding; Legionellosis; NOD-like receptorsignaling pathway; Peptide ligand-binding receptors; Salmonella infection;Signal Transduction; Signaling by GPCR |
| <b>Function</b>                     | chemokine activity;cytokine activity; growth factor activity                                                                                                                                                                                                                                                                                                                                                                 |
| <b>PDB rendering based on 1mgs.</b> |                                                                                                                                                                                                                                                                                                                                           |