

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

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

SPECIFICATION

Product Overview	Recombinant mouse Cxcl1 protein was expressed in E. coli. Arg20-Lys96.
Species	Mouse
Source	E.coli
Protein Length	20-96 a.a.
Description	Cxcl1 is a small cytokine belonging to the CXC chemokine family that was previously called GRO1 oncogene, GRO α , KC, Neutrophil-activating protein 3 (NAP-3) and melanoma growth stimulating activity, alpha (MSG α - α).
Form	Lyophilized from a 0.2 μ m filtered solution in PBS with BSA as a carrier protein.
N-terminal Sequence	Arg29
Molecular Weight	8 kDa
Activity	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 μ 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.
Endotoxin Level	<1.0 EU per 1 μ g of the protein by the LAL method.

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Purity	>97%,by SDS-PAGE under reducing conditions and visualized by silver stain.
Reconstitution	Reconstitute at 100µg/mL in sterile PBS that containing at least 0.1% human or bovine serumalbumin.
Storage	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

Gene Name	Cxcl1chemokine (C-X-C motif) ligand 1 [<i>Mus musculus</i>]
Official Symbol	Cxcl1
Synonyms	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
Gene ID	14825
mRNA Refseq	NM_008173
Protein Refseq	NP_032202
UniProt ID	P12850
Chromosome	5

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Location	
Pathway	Chemokine receptorsbind chemokines; Chemokine signaling pathway; Class A/1 (Rhodopsin-likereceptors); 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
Function	chemokine activity;cytokine activity; growth factor activity
PDB rendering based on 1mgs.	