

# Growth Factor Data Sheet

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Rat CXCL1 is an ELR type of CXC chemokine. First discovered in mouse fibroblasts, it is secreted by melanoma cells and expressed by neutrophils, monocytes, keratinocytes, macrophages, epithelial cells, and fibroblasts. CXCL1 participates in chemotaxis and cell activation of neutrophils during inflammation. CXCL1 inhibits embryonic oligodendrocyte precursor migration, suggesting a role in spinal cord development. It also plays a role in wound healing, angiogenesis, and tumorigenesis. CXCL1 is believed to be the major inflammatory factor in recurrent herpetic stromal keratitis. CXCR2 is the receptor that CXCL1 binds.

<b>Catalog Number</b>	<b>2510-01</b>
<b>Product Name</b>	<b>CXCL1, Rat</b> Recombinant Rat Chemokine (C-X-C motif) Ligand 1 Melanoma Growth Stimulating Activity, Alpha (MGSA, MGSA-a) Fibroblast Secretory Protein (FSP) Growth Related Oncogene 1 (GRO1, GROa) Cytokine-Induced Neutrophil Chemoattractant 1 (CINC1, CINC-1) Small Inducible Cytokine Subfamily B Member 1 (SCYB1) Keratinocyte Chemokine (KC)
<b>Source</b>	<i>Escherichia coli</i>
<b>MW</b>	~7.8 kDa (72 amino acids)
<b>Sequence</b>	APVANELRCQ CLQTVAGIHF KNIQSLKVMP PGPHTQTEV IATLKNGREA CLDPEAPMVQ KIVQKMLKGV PK
<b>Accession Number</b>	<a href="#">P14095</a>
<b>Purity</b>	>97% by SDS-PAGE and HPLC analyses
<b>Biological Activity</b>	Fully biologically active when compared to standard. The biological activity determined by a chemotaxis bioassay using rat neutrophils is in a concentration range of 10-100 ng/ml.
<b>Formulation</b>	Sterile filtered white lyophilized powder. Purified and tested for use in cell culture.
<b>Storage/Handling</b>	This lyophilized preparation is stable at 2-8°C, but should be kept at -20°C for long term storage. The reconstituted sample can be apportioned into working aliquots and stored at -80 °C for up to 6 months. Avoid repeated freeze/thaw cycles.
<b>Reconstitution</b>	The sample should be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute in a siliconized tube using PBS that contains a 0.1% BSA to a concentration of 0.1-1.0 mg/mL. Reconstituted solutions are stable for up to one week at 2-8°C. Stock solutions should be aliquoted and stored at -80°C. Further dilutions should be made in appropriate buffered solutions containing BSA or serum.