

# Growth Factor Data Sheet

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Rat CXCL2 is an ELR type of CXC chemokine. It is secreted by monocytes and macrophages and expressed in a variety of other cells. Expression of CXCL2 is induced by IL1, TNF, and LPS. CXCL2 participates in chemotaxis of neutrophils, basophils, polymorphonuclear leukocytes, and hematopoietic stem cells. It plays a role in wound healing, angiogenesis, tumorigenesis, and pathogenesis of airway remodeling in asthma. CXCL2 exhibits antimicrobial activity against *E. coli* and *S. aureus*. CXCL2 is a ligand for CXCR2. CXCL2 shares significant amino acid sequence homology with CXCL1.

<b>Catalog Number</b>	<b>2510-02</b>
<b>Product Name</b>	<b>CXCL2, Rat</b> Recombinant Rat Chemokine (C-X-C motif) Ligand 2 Melanoma Growth Stimulating Activity, Beta (MGSB, MGSA-b) Macrophage Inflammatory Protein 2 (MIP2, MIP2-alpha) Growth Related Oncogene 2 (GRO2, GRO-beta) Cytokine Induced Neutrophil Chemoattractant 2, Alpha (CINC2-alpha) Small Inducible Cytokine Subfamily B Member 2 (SCYB2)
<b>Source</b>	<i>Escherichia coli</i>
<b>MW</b>	~7.9 kDa (73 amino acids)
<b>Sequence</b>	VVVAELRCQ CLTTLPRVDF KNIQSLTVTP PGPHCAQTEV IATLKDGEV CLNPEAPLVQ RIVQKILNKG KAN
<b>Accession Number</b>	<a href="#">P30348</a>
<b>Purity</b>	>98% 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.