

Growth Factor Data Sheet

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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*. CXCR2 is the receptor that CXCL2 binds. CXCL2 shares significant sequence amino acid homology with CXCL1.

Catalog Number	2310-02
Product Name	CXCL2, Murine Recombinant Murine 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)
Source	<i>Escherichia coli</i>
MW	~7.8 kDa (73 amino acids)
Sequence	AVVASELRCQ CLKTLPRVDF KNIQSLSVTP PGPHCAQTEV IATLKGGQKV CLDPEAPLVQ KIIQKILNKG KAN
Accession Number	P10889
Purity	>97% by SDS-PAGE and HPLC analyses
Biological Activity	Fully biologically active when compared to standard. The biological activity determined by a chemotaxis bioassay using human neutrophils is in a concentration range of 1-10 ng/ml.
Formulation	Sterile filtered white lyophilized powder. Purified and tested for use in cell culture.
Storage/Handling	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.
Reconstitution	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.