

# Growth Factor Data Sheet

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Rat CXCL3 is an ELR type of CXC chemokine. It is secreted by monocytes and macrophages and expressed in a variety of other cells. As a result of alternative splicing, there are two isoforms of rat CXCL3 that differ from each other by three amino acid residues. This recombinant rat CXCL3 isoform is often referred to as CXCL3B or CINC2B. CXCR2 is the receptor that CXCL3 binds. CXCL3 participates in chemotaxis and cell activation of neutrophils. It plays a role in wound healing, inflammation, angiogenesis, tumorigenesis, metastasis, and pathogenesis of airway remodeling in asthma. CXCL3 has an effect on the differentiation and function of monocyte-derived dendritic cells, pushing them towards a myeloid-derived suppressor cell (MDSC)-like phenotype.

<b>Catalog Number</b>	<b>2510-03B</b>
<b>Product Name</b>	<b>CXCL3-beta, Rat</b> Recombinant Rat Chemokine (C-X-C motif) Ligand 3, Beta (CXCL3 $\beta$ ) Melanoma Growth Stimulating Activity, Gamma (MGSG, MGSA-g) Macrophage Inflammatory Protein 2 (MIP2-beta) Growth Related Oncogene 3 (GRO3, GRO-gamma) Cytokine Induced Neutrophil Chemoattractant 2, Beta (CINC-2B, CINC2B) Small Inducible Cytokine Subfamily B Member 3 (SCYB3) Dendritic Cell Inflammatory Protein 1 (DCIP1)
<b>Source</b>	<i>Escherichia coli</i>
<b>MW</b>	~7.6 kDa (68 amino acids)
<b>Sequence</b>	RELRCQLKT LPRVDFENIQ SLVTTPPGPH CTQTEVIATL KDGQEVCLNP QAPRLQKIIQ KLLKPSL
<b>Accession Number</b>	<a href="#">Q10746</a>
<b>Purity</b>	>96% 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 human CXCR2 transfected murine BaF3 cells is in a concentration range of 5-50 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.