

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 is the canonical sequence often referred to as CXCL3A or CINC2A. 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.

Catalog Number	2510-03A
Product Name	CXCL3-alpha, Rat Recombinant Rat Chemokine (C-X-C motif) Ligand 3, Alpha (CXCL3 α) 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, Alpha (CINC-2A, CINC2A) Small Inducible Cytokine Subfamily B Member 3 (SCYB3) Dendritic Cell Inflammatory Protein 1 (DCIP1)
Source	<i>Escherichia coli</i>
MW	~7.8 kDa (69 amino acids)
Sequence	RELRCQLKT LPRVDFENIQ SLVTTPPGPH CTQTEVIATL KDGQEVCLNP QAPRLQKIIQ KLLKSDKSS
Accession Number	Q10746
Purity	>96% 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 CXCR2 transfected murine BaF3 cells is in a concentration range of 5-50 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.