

Growth Factor Data Sheet

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Murine CXCL5 is an ELR type of CXC chemokine. It is expressed in various epithelial cell lines alongside CXCL8 (IL8) and CXCL1 in response to stimulation by IL1 or TNF-alpha. It is downregulated by IFNG. Murine CXCL5 is a ligand for Murine CXCR2 and CXCR1. It is a chemoattractant and activator of neutrophils, and plays a role in angiogenesis and inflammation, as well as the metastasis of various cancers. It also blocks insulin signaling by activating the JAK2/STAT5/SOCS2 pathway. Murine CXCL5 is an ortholog of human CXCL6 and is a more potent chemoattractant than human CXCL5 or CXCL6 on human neutrophils.

Catalog Number	2310-05
Product Name	CXCL5 (92 a.a.), Murine Recombinant Murine Chemokine (C-X-C motif) Ligand 5 (CXCL5) Epithelial-derived Neutrophil Activating Peptide 78 (ENA78, ENA-78) Lipopolysaccharide (LPS) Induced CXC Chemokine (LIX) Small Inducible Cytokine Subfamily B Member 5 (SCYB5) Murine Granulocyte Chemotactic Protein 2 (GCP2, GCP-2) Alveolar Macrophage Chemotactic Factor 2 (AMCF2, AMCF-2)
Source	<i>Escherichia coli</i>
MW	~9.8 kDa (92 amino acids)
Sequence	APSSVIAATE LRCVCLTVTP KINPKLIANL EVIPAGPQCP TVEVIAKLKN QKEVCLDPEA PVIKKIIQKI LGSDKKKAKR NALAVERTAS VQ
Accession Number	P50228
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 peripheral blood neutrophils is in a concentration of 10-100 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.