

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. CXCL5 is a ligand for 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. The truncated forms of CXCL5 have been reported as being much more potent than the full length polypeptide.

Catalog Number	2310-05T
Product Name	CXCL5 (70 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	~7.6 kDa (70 amino acids)
Sequence	TELRVCVCLTV TPKINPKLIA NLEVIPAGPQ CPTVEVIAKL KNQKEVCLDP EAPVIKKIIQ KILGSDKKKA
Accession Number	P50228
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 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.