

Growth Factor Data Sheet

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Rat CXCL14 is a CXC chemokine lacking the ELR motif. It is expressed constitutively in many normal tissues, including brain, lung, ovaries, kidneys, and muscle. CXCL14 is chemotactic for monocytes, macrophages, dendritic cells, activated NK cells, and B cells. It possesses tumor suppressing function in certain cancers possibly due to migrations of NK cells, inhibition of angiogenesis, and reduction of settlement rate of tumor cells. However in contradiction, it can induce tumor growth in other types of cancers. CXCL14 is a natural antagonist for CXCR4 and inhibits CXCL12.

Catalog Number	2510-14
Product Name	CXCL14, Rat Recombinant Rat Chemokine (C-X-C motif) Ligand 14 (CXCL14) Macrophage Inflammatory Protein 2, Gamma (MIP2 γ , MIP-2- γ) Small Inducible Cytokine Subfamily B Member 13 (SCYB13) B-Cell And Monocyte-Activating Chemokine (BMAC) Homolog of Human Breast and Kidney Cell Chemokine (BRAK) KS1
Source	<i>Escherichia coli</i>
MW	~9.4 kDa (77 amino acids)
Sequence	SKCKCSRKGP KIRYSDVKKL EMKPKYPHCE EKMVIITTKS MSRYRGQEHK LHPKLQSTKR FIKWYNWANE KRRVYEE
Accession Number	Q8K453
Purity	>95% 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 monocytes is in a concentration range of 1.0-10 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.