

Growth Factor Data Sheet

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Interleukin 8 (IL8) is encoded by the IL8 gene and produced by macrophages and other cell types such as epithelial cells. IL8 is also synthesized by endothelial cells, and then stored in vesicles. There are many receptors capable of binding to IL8; however, the receptors that have the greatest affinity are CXCR1 and CXCR2. As a member of the CXC chemokine family, IL8 is a player in the induction of chemotaxis in its target cells, like neutrophil granulocytes, basophils and T-cells. IL8 is often associated with inflammation and has been cited as a pro-inflammatory mediator in gingivitis and psoriasis.

Catalog Number	1410-08
Product Name	IL8, Canine Recombinant Canine Interleukin 8 Chemokine, CXC Motif, Ligand 8 (CXCL8) Small Inducible Cytokine Subfamily B, Member 8 (SCYB8) Monocyte Derived Neutrophil Chemotactic Factor
Source	<i>Escherichia coli</i>
MW	~9.1 kDa (79 amino acids)
Sequence	AVLSRVSEL RCQCIKTHST PFHPKYIKEL RVIDSGPHCE NSEIIVKLFN GNEVCLDPKE KWVQKVVQIF LKKA EKQDP
Accession Number	P41324
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 CXCR2 transfected murine BaF3 cells is in a concentration range of 0.15-0.75 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.