

## **Growth Factor Data Sheet**

psoriasis.

GoldBio growth factors are manufactured for RESEARCH USE ONLY and cannot be sold for human consumption!

Interleukin-8 (IL8) is encoded by the IL8 gene and produced by macrophages and other cell types such as epithelial cells. IL8 is synthesized by endothelial cells, which stock IL8 in their storage vesicles. There are many receptors capable of binding to IL8; however, the molecules with the highest affinity to IL8 are receptors CXCR1 and CXCR2. As a member of the CXC chemokine family, one of the functions of IL8 is the induction of chemotaxis in its target cells, like neutrophil granulocytes, basophils, and T-cells. IL8 (72a.a.) has a 5-10-fold higher activity on neutrophil activation compared to IL8 (77 a.a.). IL8 is often associated with inflammation, and has been cited as a pro-inflammatory mediator in gingivitis and

Catalog Number	1110-08A
Product Name	IL8, Human
	Recombinant Human Interleukin-8, 72 a.a.
	Hull8
	Chemokine, CXC Motif, Ligand 8 (CXCL8)
	Monocyte-Derived Neutrophil Chemotactic Factor
	Small Inducible Cytokine Subfamily B, Member (SCYB8)
Source	Escherichia coli
MW	~8.4 kDa (72 amino acids)
Sequence	SAKELRCQCI KTYSKPFHPK FIKELRVIES GPHCANTEII VKLSDGRELC LDPKENWVQR
	VVEKFLKRAE NS
Accession Number	<u>P10145</u>
Purity	>97% by SDS-PAGE and HPLC analyses
Biological Activity	Fully biologically active when compared to standard. The ED₅ as determined by a
	chemotaxis bioassay using human CXCR2 transfected mouse BaF3 cells is less than 2
	ng/ml, corresponding to a specific activity of $>5.0 \times 10^5$ IU/mg.
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.

GoldBio · FM-000019/ 1110-08A DES Version 1 Page 1 of 1 DES Date: 11/15/2019