

# Growth Factor Data Sheet

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. 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 psoriasis.

<b>Catalog Number</b>	<b>1110-08B</b>
<b>Product Name</b>	<b>IL8, Human (77 a.a.)</b> Recombinant Human Interleukin-8, 77 a.a. HuIL8 Chemokin, CXC Motif, Ligand 8 (CXCL8) Monocyte-Derived Neutrophil Chemotactic Factor Small Inducible Cytokine Subfamily B, Member (SCYB8)
<b>Source</b>	<i>Escherichia coli</i>
<b>MW</b>	~8.9 kDa (77 amino acids)
<b>Sequence</b>	AVLPRSAKEL RCQCIKTYSK PFHPKFIKEL RVIESGPHCA NTEIIVKLSL GRELCCLDPKE NWWQRVVEKF
<b>Accession Number</b>	<a href="#">P10145</a>
<b>Purity</b>	>96% by SDS-PAGE and HPLC analyses
<b>Biological Activity</b>	Fully biologically active when compared to standard. The ED <sub>50</sub> 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 × 10 <sup>5</sup> IU/mg.
<b>Formulation</b>	Sterile filtered white lyophilized powder. Purified and tested for use in cell culture.
<b>Storage/Handling</b>	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.
<b>Reconstitution</b>	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.