

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. 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.

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| Catalog Number | 1810-08 |
| Product Name | IL8, Porcine Recombinant Porcine Interleukin-8 IL8 Monocyte-Derived Neutrophil Chemotactic Factor Small Inducible Cytokine Subfamily B, Member (SCYB8) Chemokine, CXC Motif, Ligand 8 (CXCL8) |
| Source | <i>Escherichia coli</i> |
| MW | ~9.1 kDa (78 amino acids) |
| Sequence | ARVSAELRCQ CINTHSTPFH PKFIKELRVI ESGPHCENSE IIVKLVNGKE VCLDPKEKWV QKVVQIFLKR TEKQQQQQ |
| Accession Number | P26894 |
| 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 peripheral blood neutrophils is in a concentration range of 20-200 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. |