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## Product Data Sheet

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Product Name: IL 8 Human (1-72)

Cat. No.: GP21127

Batch No.: 1

**Product Data**

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped at Room temp.
Synonyms	IL-8; CXCL8; Monocyte-derived neutrophil chemotactic factor; MDNCF; T-cell chemotactic factor; Neutrophil-activating protein 1; NAP-1; Protein 3-10C; Granulocyte chemotactic protein 1; GCP-1; Monocyte-derived neutrophil-activating peptide; MONAP; Emoctakin; K60; NAF; LECT; LUCT; 3-10C; LYNAP; SCYB8; TSG-1; AMCF-I; b-ENAP.		
Amino Acid Sequence	The sequence of the first five N-terminal amino acids was determined and was found to be Ser-Ala-Lys-Glu-Leu.		
Solubility	It is recommended to reconstitute the lyophilized Interleukin-8 in sterile 18MΩ-cm H <sub>2</sub> O not less than 100μg/ml, which can then be further diluted to other aqueous solutions.		
Formulation	The IL-8 was lyophilized from a concentrated (1mg/ml) solution in water containing no additives.		

**Introduction**

Interleukin-8 (IL-8) is a chemokine produced by macrophages and other cell types such as epithelial cells. It is also synthesized by endothelial cells, which store IL-8 in their storage vesicles, the Weibel-Palade bodies. When first encountering an antigen, the primary cells to encounter it are the macrophages who phagocytose the particle. Upon processing, they release chemokines to signal other immune cells to come in to the site of inflammation. IL-8 is one such chemokine. It serves as a chemical signal that attracts neutrophils at the site of inflammation, and therefore is also known as Neutrophil Chemotactic Factor.

**Biological Activity**

Specific Activity of IL8 in chemotaxis of donor PBL neutrophils, threshold concentration

**Caution: Product has not been fully validated for medical applications. For research use only.**

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corresponding to 10-100 ng/ml corresponding to a Specific Activity of 10,000-100,000IU/mg.

### Stability

Lyophilized Interleukin-8 although stable at room temperature for 3 weeks, should be stored desiccated below  $-18^{\circ}\text{C}$ . Upon reconstitution CXCL8 should be stored at  $4^{\circ}\text{C}$  between 2-7 days and for future use below  $-18^{\circ}\text{C}$ . For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.

### Background

Interleukin-8 Human Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 72 amino acids and having a molecular mass of 8452 Dalton. The IL-8 is purified by proprietary chromatographic techniques.

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