
Product Data Sheet

Product Name: IL 8 Human, Pichia
 Cat. No.: GP21130
 Batch No.: 1

Product Data

Purity	>98%	Source	Pichia Pastoris.
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.		
Solubility	It is recommended to reconstitute the lyophilized Interleukin 8 in sterile 18MΩ-cm H ₂ O not less than 100μg/ml, which can then be further diluted to other aqueous solutions.		
Formulation	Lyophilized from a concentrated (1mg/ml) solution in water containing 20mM sodium phosphate buffer pH-8.		

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

Chemotactic activity was reached at 25ng/ml on human neutrophils.

Stability

Lyophilized Interleukin-8 although stable at room temperature for 3 weeks. should be

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

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Lyophilized Interleukin-8 should be stored at room temperature for 3 weeks, should be stored desiccated below -18°C . Upon reconstitution CXCL8 should be stored at 4°C between 2-7 days and for future use below -18°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 Yeast is a single, glycosylated polypeptide chain containing 79 amino acids and having a molecular mass of 9 kDa. The IL-8 is purified by proprietary chromatographic techniques.

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