
Product Data Sheet

Product Name: IL 8 Porcine
 Cat. No.: GP21128
 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; Alveolar macrophage chemotactic factor I.		
Amino Acid Sequence	ARVSAELRCQ CINTHSTPFH PKFIKELRVI ESGPHCENSE IIVKLVNGKE VCLDPKEKWV QKVVQIFLKR TEKQQQQQ.		
Solubility	It is recommended to reconstitute the lyophilized Interleukin 8 in sterile 18M-cm H ₂ O not less than 100µg/ml, which can then be further diluted to other aqueous solutions.		
Formulation	Lyophilized from a 0.2µm filtered concentrated solution in 16 ⁺ PBS, pH 7.4.		

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

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

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The biological activity was determined by a chemotaxis bioassay using human peripheral blood neutrophils is in a concentration range of 20-200 ng/ml.

Stability

Lyophilized Interleukin-8 although stable 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 Porcine Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 78 amino acids and having a molecular mass of 9.1kDa. The IL8 is purified by proprietary chromatographic techniques.

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