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IL 8 Human (1-72)

Interleukin-8 (1-72 a.a.) Human Recombinant (CXCL8)
CHK0074

Product Overview

Name	IL 8 Human (1-72)
Description	
Interleukin-8 (1-72 a.a.) Human Recombinant (CXCL8)	
Accession (Primary)	P10145
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.	
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.	
Source	
Escherichia Coli.	
Physical Appearance	
Sterile Filtered White lyophilized (freeze-dried) powder.	
Formulation	
The IL-8 was lyophilized from a concentrated (1mg/ml) solution in water containing no additives.	
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.	
Purity	
Greater than 98.0% as determined by: (a) Analysis by RP-HPLC. (b) Analysis by SDS-PAGE.	
Amino acid sequence	

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The sequence of the first five N-terminal amino acids was determined and was found to be Ser-Ala-Lys-Glu-Leu.

Biological Activity

Specific Activity of IL8 in chemotaxis of donor PBL neutrophils, threshold concentration corresponding to 10-100 ng/ml corresponding to a Specific Activity of 10,000-100,000IU/mg.

Solubility

It is recommended to reconstitute the lyophilized Interleukin-8 in sterile 18MΩ-cm H2O not less than 100 µg/ml, which can then be further diluted to other aqueous solutions.

Precautions

IL 8 Human (1-72) is for research use only and not for use in diagnostic or therapeutic procedures.

Target Information: (P10145)