

Recombinant Human Interleukin 8

Cat. No. IL8-215H **Lot. No.** (See product label)

SPECIFICATION

Product Overview

Species Human

Source Mammalian Cells

Description

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. IL-8 is one of the major mediators of the inflammatory response. This chemokine is secreted by several cell types. It functions as a chemoattractant, and is also a potent angiogenic factor. Gene of IL-8 is believed to play a role in the pathogenesis of bronchiolitis. While neutrophil granulocytes are the primary target cells of IL-8 there is a relative wide range of cells (endothelial cells, macrophages, mast cells, keratinocytes) responding to this chemokine, too. When first encountering an antigen, the primary cells to encounter it are the macrophages that 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. Interleukin-8 is often associated with inflammation. As an example, it has been cited as a proinflammatory mediator in psoriasis.

Molecular Weight

The predicted molecular weight of Recombinant Human IL-8 is Mr 34.8 kDa. However, the actual molecular weight as observed by migration on SDS Page is Mr 80-95 kDa.

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State Of Matter	Lyophilized.
Purity	> 95% by SDS Page and analyzed by silver stain.
Endotoxin	< 0.15 ng per 1 g as determined by the LAL method.
Storage And Stability	This lyophilized protein is stable for six to twelve months when stored desiccated at -20°C to -70°C. After aseptic reconstitution, this protein may be stored at 2°C to 8°C for one month or at -20°C to -70°C in a manual defrost freezer. Avoid Repeated Freeze Thaw Cycles. See Product Insert for exact lot specific storage instructions.

GENE INFORMATION

Gene Name	IL8 interleukin 8 [Homo sapiens]
Synonyms	IL8; interleukin 8; NAF; GCP1; LECT; LUCT; NAP1; CXCL8; GCP-1; LYAP; MDNCF; MONAP; NAP-1; TSG-1; emoctakin; T cell chemotactic factor; neutrophil-activating peptide 1; chemokine (C-X-C motif) ligand 8; beta-thromboglobulin-like protein; granulocyte chemotactic protein 1; monocyte-derived neutrophil chemotactic factor; small inducible cytokine subfamily B, member 8; lymphocyte-derived neutrophil-activating factor; SCYB8; IL-8; 3-10C; MONAP; b-ENAP; K60; Monocyte-derived neutrophil chemotactic factor; T-cell chemotactic factor; Monocyte-derived neutrophil-activating peptide; Protein 3-10C; Granulocyte chemotactic protein 1; MDNCF-a; IL8/NAP1 form I; GCP/IL-8 protein IV; Interleukin-8; IL-8(1-77); MDNCF-b; IL8/NAP1 form II; GCP/IL-8 protein II; (Ala-IL-8)77; IL-8(5-77); IL-8(6-77); Lymphocyte-derived neutrophil-activating factor; Neutrophil-activating factor; MDNCF-c; IL8/NAP1 form III; GCP/IL-8 protein; (Ser-IL-8)72; IL-8(7-77); IL8/NAP1 form IV; GCP/IL-8 protein V; IL-8(8-77); IL8/NAP1 form V; GCP/IL-8 protein VI; IL-8(9-77); IL8/NAP1 form VI; GCP/IL-8 protein III

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Gene ID	3576
mRNA Refseq	NM_000584
Protein Refseq	NP_000575
UniProt ID	P10145
Chromosome Location	4q13-q21
MIM	146930
Pathway	Bladder cancer; Chemokine signaling pathway; Cytokine-cytokine receptor interaction; Epithelial cell signaling in Helicobacter pylori infection; Pathways in cancer; RIG-I-like receptor signaling pathway; Toll-like receptor signaling pathway
Function	chemokine activity; interleukin-8 receptor binding; protein binding
PDB rendering based on 1IL8.	