

Recombinant Human CXCL8 Protein, Biotin-tagged

Cat. No. CXCL8-17H Lot. No. (See product label)

SPECIFICATION

Product Overview Recombinant Human CXCL8 Protein, fused to Biotin-tag, was expressed in E. coli.

Species Human

Source E.coli

Description

The protein encoded by this gene is a member of the CXC chemokine family and is a major mediator of the inflammatory response. The encoded protein is commonly referred to as interleukin-8 (IL-8). IL-8 is secreted by mononuclear macrophages, neutrophils, eosinophils, T lymphocytes, epithelial cells, and fibroblasts. It functions as a chemotactic factor by guiding the neutrophils to the site of infection. Bacterial and viral products rapidly induce IL-8 expression. IL-8 also participates with other cytokines in the proinflammatory signaling cascade and plays a role in systemic inflammatory response syndrome (SIRS). This gene is believed to play a role in the pathogenesis of the lower respiratory tract infection bronchiolitis, a common respiratory tract disease caused by the respiratory syncytial virus (RSV). The overproduction of this proinflammatory protein is thought to cause the lung inflammation associated with cystic fibrosis. This proinflammatory protein is also suspected of playing a role in coronary artery disease and endothelial dysfunction. This protein is also secreted by tumor cells and promotes tumor migration, invasion, angiogenesis and metastasis. This chemokine is also a potent angiogenic factor. The binding of IL-8 to one of its receptors (IL-8RB/CXCR2) increases the permeability of blood vessels and increasing levels of IL-8 are positively correlated with increased severity of multiple disease outcomes (eg, sepsis). This gene and other members of

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the CXC chemokine gene family form a gene cluster in a region of chromosome 4q.

AA Sequence

AVLPRSAKEL RCQCIKTYSK PFHPKFIKEL RVIESGPHCA NTEIIVKLSD
GRELCLDPKE NWWQRVVEKF LKRAENS + Linker

tmpcolum67

C-X-C motif chemokine ligand 8

Conjugation

Biotin

GENE INFORMATION

Gene Name

CXCL8 C-X-C motif chemokine ligand 8 [Homo sapiens (human)]

Official Symbol

CXCL8

Synonyms

IL8; NAF; GCP1; LECT; LUCT; NAP1; GCP-1; LYNAP; MDNCF; MONAP; NAP-1;
SCYB8

Gene ID

3576

mRNA Refseq

NM_000584

Protein Refseq

NP_000575

MIM

146930

UniProt ID

P10145

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