Interleukin-8 Human E. coli

Product Data Sheet

Type: Recombinant
Source: E. coli
Species: Human
Other names: IL-8, Monocyte-derived neutrophil chemotactic factor, T-cell chemotactic factor, Neutrophil-activating protein 1, Granulocyte chemotactic protein 1

Cat. No.:

RBG10008005	(5 µg)
RBG10008025	(25 µg)
RBG10008100	(100 µg)

Description

IL-8 is a proinflammatory CXC chemokine that can signal through the CXCR1 and CXCR2 receptors. It is secreted by monocytes and endothelial cells. IL-8 chemoattracts and activates neutrophils. Recombinant Human IL-8 (endothelial-derived) is an 8.9 kDa protein containing 77 amino acid residues.

Introduction to the Molecule

IL-8 (8 kDa, 72 amino acids) is a non-glycosylated protein and it is produced by the processing of a precursor protein of 99 amino acids. IL-8 is present in the synovial fluids of patients with rheumatoid arthritis and has been purified from plaque psoriasis scales. It is associated with sepsis, asthma and glomerulonephritis.

Research topic

Animal studies, Cytokines and chemokines and related molecules

Amino Acid Sequence

AVLPRSAKEL RCQCIKTYSK PFHPKFIKEL RVIESGPHCA NTEIIVKLSD GRELCLDPKE NWVQRVVEKF LKRAENS

Source

E. coli

Purity

98%

Biological Activity

Determined by its ability to chemoattract human peripheral blood neutrophils using a concentration range of 25.0-150.0 ng/ml.

Endotoxin

Endotoxin level is <0.1 ng/µg of protein (<1EU/µg).

Reconstitution

Centrifuge the vial prior to opening. Reconstitute in water to a concentration of 0.1-1.0 mg/ml. Do not vortex. This solution can be stored at 2-8°C for up to 1 week. For extended storage, it is recommended to further dilute in a buffer containing a carrier protein (example 0.1% BSA) and store in working aliquots at -20°C to -80°C.

Storage, Stability/Shelf Life

-20°C

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