

Recombinant Human Interleukin 8 (a. a. 77)

Human, Antigen (IL8)

Cat. No: DAG352

Lot.No: (See product label)

PRODUCT INFORMATION

Product Overview: Recombinant Human Interleukin-8 (IL-8), 8.9kDa Endothelial IL-8 is an 8.9kDa protein containing 77 amino acid residues, was expressed in *E. coli*. It promotes neutrophil chemotaxis and degranulation. The 77 amino acid IL-8 is the predominant form secreted by endothelial cells.

Antigen 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, the Weibel-Palade bodies. In humans, the interleukin-8 protein is encoded by the IL8 gene.

Form: Purified, Lyophilized. We recommend a quick spin followed by reconstitution in water to a concentration of 0.1-1.0mg/ml. This solution can then be diluted into other buffered solutions and stored (up to 1 week) at 2-8°C or stored at -20°C for future use.

Source: *E. coli*

Purification: >98% pure (SDS-PAGE and HPLC analysis). Endotoxin level is <0.1ng per ug (1EU/ug).

Inactivation: Not applicable

Applications: Biological activity was determined by its ability to chemoattract human peripheral blood neutrophils using a concentration of 25.0-150.0ng/ml. Each laboratory should determine an optimum working titer for use in its particular application. Other applications have not been tested but use in such assays should not necessarily be excluded.

PACKAGING

Concentration: Not applicable.

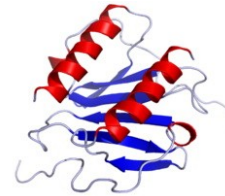
Buffer: Not applicable

Preservative: None

Storage: The lyophilized product is stable for a few weeks at room temperature but is best stored at -20°C. After reconstitution, aliquot and store at -20°C.

REFERENCES

1. Modi WS, Dean M, Seunanez HN, Mukaida N, Matsushima K, O'Brien SJ (January 1990). "Monocyte-derived neutrophil chemotactic factor (MDNCF/IL-8) resides in a gene cluster along with several other members of the platelet factor 4 gene superfamily". *Hum. Genet.* 84 (2): 185-7.
2. Köhldai L, Csaba G (July 1998). "Chemotaxis and chemotactic selection induced with cytokines (IL-8, RANTES and TNF- α) in the unicellular *Tetrahymena pyriformis*". *Cytokine* 10 (7): 481-6



PDB rendering based on 1IL8.

GENE INFORMATION

Gene Name: [IL8 interleukin 8 \[Homo sapiens \]](#)

Official Symbol: IL8

Synonyms: IL8; interleukin 8; NAF; GCP1; LECT; LUCT; NAP1; CXCL8; GCP-1; LY NAP; MDNCF; MONAP; NAP-1; emoctakin; OTTHUMP00000199824; OT-THUMP00000199825; neutrophil-activating peptide 1; chemokine (C-X-C motif) ligand 8; beta-thromboglobulin-like protein; granulocyte chemotactic protein 1; tumor necrosis factor-induced gene 1; alveolar macrophage chemotactic factor I; monocyte-derived neutrophil chemotactic factor; GCP/IL-8 protein I; GCP/IL-8 protein II; GCP/IL-8 protein III; GCP/IL-8 protein IV; GCP/IL-8 protein V; GCP/IL-8 protein VI; Granulocyte chemotactic protein 1; IL-8(1-77); IL8/NAP1 form I; IL8/NAP1 form II; IL8/NAP1 form III; IL8/NAP1 form IV; IL8/NAP1 form V; IL8/NAP1 form VI; K 60; MDNCF-b; MDNCF-c; Lymphocyte derived neutrophil activating factor; NAF; Neutrophil-activating protein 1; Protein 3-10C; SCYB 8; Small inducible cytokine subfamily B member 8; TSG 1; T cell chemotactic factor

GeneID: [3576](#)

mRNA Refseq: [NM_000584](#)

Protein Refseq: [NP_000575](#)

MIM: [146930](#)

UniProt ID: P10145

Chromosome Location: 4q13-q21

Pathway: ATF-2 transcription factor network; Chagas disease (American trypanosomiasis); Epithelial cell signaling in *Helicobacter pylori* infection; Legionellosis; Malaria

Function: chemokine activity; interleukin-8 receptor binding; protein binding

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