

Recombinant Human Interleukin 8

Cat. No. IL8-53H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human Interleukin-8 produced in Yeast is a single, glycosylated polypeptide chain containing 79 amino acids and having a molecular mass of 9 kDa. The IL-8 is purified by proprietary chromatographic techniques.
Species	Human
Source	Yeast
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. 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.
Physical Appearance	Sterile Filtered White lyophilized (freeze-dried) powder.
Purity	Greater than 98.0% as determined by: (a) Analysis by RP-HPLC. (b) Analysis by SDS-PAGE.
Formulation	Lyophilized from a concentrated (1 mg/ml) solution in water containing 20 mM sodium phosphate buffer pH-8.

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

Specific Activity Specific Activity of IL8 in chemotaxis of donor PBL neutrophils, threshold concentration corresponding to 25 ng/ml.

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.


GENE INFORMATION

Gene Name IL8 interleukin 8 [*Homo sapiens*]

Synonyms IL8; interleukin 8; NAF; GCP1; LECT; LUCT; NAP1; CXCL8; LYNAP; MDNCF; MONAP; NAP-1; SCYB8; SG-1; 3-10C; AMCF-I; NAF; b-ENAP; K60; Emoctakin; TSG-1; chemokine (C-X-C motif) ligand 8; Monocyte-derived neutrophil chemotactic factor; T-cell chemotactic factor; Neutrophil-activating protein 1; Protein 3-10C; Granulocyte chemotactic protein 1; Monocyte-derived neutrophil-activating peptide; MDNCF-a; IL8/NAP1 form I; GCP/IL-8 protein IV; IL8/NAP1 form II; GCP/IL-8 protein II; (Ala-IL-8)₇₇; IL-8(5-57); IL-8(6-77); IL-8(5-77); Lymphocyte-derived neutrophil-activating factor; MDNCF-c; IL8/NAP1 form III; GCP/IL-8 protein I; (Ser-IL-8)₇₂; IL-8(7-77); IL-8(8-77); IL-8(9-77); IL8/NAP1 form IV; GCP/IL-8 protein V; IL8/NAP1 form V; GCP/IL-8 protein VI; IL8/NAP1 form VI; GCP/IL-8 protein III; Monocyte-derived neutrophil chemotactic factor; beta-thromboglobulin-like protein; small inducible cytokine subfamily B, member 8

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Gene ID	3576
mRNA Refseq	NM_000584
Protein Refseq	NP_000575
MIM	146930
UniProt ID	P10145
Chromosome Location	4q13-q21
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; Signaling by GPCR
Function	chemokine activity;interleukin-8 receptor binding;protein binding

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