

## Active Recombinant Human IL8, Fc-tagged

Cat. No. IL8-324H    Lot. No. (See product label)

### SPECIFICATION

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| <b>Product Overview</b> | The extracellular domain of human IL-8 (aa 23-99) is fused to the N-terminus of the Fc region of a mutant human IgG1.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Source</b>           | CHO                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>ProteinLength</b>    | 23-99 a.a.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Description</b>      | <p>Interleukin-8 (IL-8) was originally discovered as a neutrophil chemotactic and activating factor and is a member of the alpha (CXC) subfamily of chemokines (including also platelet factor 4, GRO, IP-10, etc.). Many cell types, including monocyte/macrophages, T cells, neutrophils, fibroblasts, endothelial cells, keratinocytes, hepatocytes, chondrocytes and various tumor cell lines, produce IL-8 in response to a wide variety of proinflammatory stimuli such as exposure to IL-1, TNF, LPS and viruses. IL-8 has a wide range of other proinflammatory effects. It is a potent chemoattractant for neutrophils and causes degranulation of neutrophil specific granules and azurophilic granules. IL-8 induces expression of the cell adhesion molecules CD11/CD18 and enhances the adherence of neutrophils to endothelial cells and subendothelial matrix proteins. Besides neutrophils, IL-8 is also chemotactic for basophils, T cells and eosinophils. IL-8 has been reported to be a co-mitogen for keratinocytes and was also shown to be an autocrine growth factor for melanoma cells. IL-8 was also reported to be angiogenic both in vivo and in vitro.</p> |

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|---------------------|-------------------------------------------------------------------------------------------------------------------------------------|
| <b>Form</b>         | Lyophilized from 0.2µm-filtered solution in PBS.                                                                                    |
| <b>Bio-activity</b> | Shows the biological function of the IL-8 moiety and exerts a prolonged circulating half-life caused by the modified Fc domain.     |
| <b>Purity</b>       | ≥98% (SDS-PAGE)                                                                                                                     |
| <b>Stability</b>    | Stable for at least 1 year after receipt when stored at -20°C. Working aliquots are stable for up to 3 months when stored at -20°C. |
| <b>Storage</b>      | Short Term Storage: +4°C; Long Term Storage: -20°C. Avoid freeze/thaw cycles.                                                       |

## GENE INFORMATION

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| <b>Gene Name</b>       | IL8 interleukin 8 [ Homo sapiens ]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Official Symbol</b> | IL8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Synonyms</b>        | IL8; interleukin 8; interleukin-8; 3 10C; alveolar macrophage chemotactic factor I; AMCF I; b ENAP; beta endothelial cell derived neutrophil activating peptide; chemokine (C X C motif) ligand 8; CXCL8; GCP 1; GCP1; granulocyte chemotactic protein 1; IL 8; K60; LECT; LUCT; lung giant cell carcinoma derived chemotactic protein; lymphocyte derived neutrophil activating peptide; LYNAP; MDNCF; MONAP; monocyte derived neutrophil chemotactic factor; monocyte derived neutrophil activating peptide; NAF; NAP 1; NAP1; neutrophil activating peptide 1; SCYB8; TSG 1; tumor necrosis factor induced gene 1; emoctakin; T-cell chemotactic factor; neutrophil-activating peptide 1; chemokine (C-X-C motif) ligand 8; beta-thromboglobulin-like protein; tumor necrosis factor-induced gene 1; monocyte-derived neutrophil chemotactic factor; monocyte-derived neutrophil-activating peptide; small inducible cytokine subfamily B, member 8; lung giant cell carcinoma-derived chemotactic protein; beta endothelial cell-derived neutrophil activating peptide; GCP- |

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|----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                            | 1; NAP-1;                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Gene ID</b>             | 3576                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>mRNA Refseq</b>         | NM_000584                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Protein Refseq</b>      | NP_000575                                                                                                                                                                                                                                                                                                                                                                              |
| <b>MIM</b>                 | 146930                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>UniProt ID</b>          | P10145                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Chromosome Location</b> | 4q13-q21                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Pathway</b>             | ATF-2 transcription factor network, organism-specific biosystem; Activation of Genes by ATF4, organism-specific biosystem; Amoebiasis, organism-specific biosystem; Amoebiasis, conserved biosystem; Bladder cancer, organism-specific biosystem; Bladder cancer, conserved biosystem; Calcineurin-regulated NFAT-dependent transcription in lymphocytes, organism-specific biosystem; |
| <b>Function</b>            | chemokine activity; interleukin-8 receptor binding; protein binding;                                                                                                                                                                                                                                                                                                                   |

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