

Active Recombinant Human IL8, Fc-tagged

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

SPECIFICATION

Product Overview 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.

Species Human

Source CHO

ProteinLength 23-99 a.a.

Description

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.

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Form	Lyophilized from 0.2µm-filtered solution in PBS.
Bio-activity	Shows the biological function of the IL-8 moiety and exerts a prolonged circulating half-life caused by the modified Fc domain.
Purity	≥98% (SDS-PAGE)
Stability	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.
Storage	Short Term Storage: +4°C; Long Term Storage: -20°C. Avoid freeze/thaw cycles.

GENE INFORMATION

Gene Name	IL8 interleukin 8 [Homo sapiens]
Official Symbol	IL8
Synonyms	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;
Gene ID	3576
mRNA Refseq	NM_000584
Protein Refseq	NP_000575
MIM	146930
UniProt ID	P10145
Chromosome Location	4q13-q21
Pathway	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;
Function	chemokine activity; interleukin-8 receptor binding; protein binding;

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