

Active Human IL8

Cat. No. IL8-104H Lot. No. (See product label)

SPECIFICATION

Product Overview	It is a synthetic Protein
Species	Human
Source	E.coli
Description	Interleukin 8 (IL-8), formerly called monocyte-derived neutrophil chemotactic factor, belongs to the C-X-C chemokine family. It was originally discovered and purified independently by a number of laboratories as a neutrophil chemotactic and activating factor. It was also referred to as neutrophil activating protein, neutrophil chemotactic factor, leukocyte adhesion inhibitor, granulocyte chemotactic protein and T-lymphocyte chemotactic factor. IL-8 consists of 72 amino acids with a molecular weight of 8 kDa. IL-8 exhibits chemotactic activity in vitro for T cells, basophils and neutrophils. IL-8 activates neutrophils to release lysosomal enzymes including myeloperoxidase, -mannosidase and -glucuronidase. IL-1, TNF, Lipopolysaccharides and viruses induce the production of IL-8 from fibroblasts, keratinocytes, endothelial cells, hepatoma cells, astrocytoma cells, glioblastoma cells, lung epithelial cells, synovial membrane cells, melanocytes, melanoma cells and gastric cancer cells.
Form	Lyophilized
Bio-activity	Activity measured by ability of the protein to induce myeloperoxidase release from human neutrophils or chemotaxis of hCXCR-2 transfected mouse BaF/3 cells. ED50s for these measurements are generally 0.2-0.4 µg/ml and 0.2-1 ng/ml, respectively.

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Applications	Activity Assay
Storage	Product should be stored at -20°C. Aliquot to avoid freeze/thaw cycles
Reconstitution	Recommended reconstitution in sterile phosphate buffered saline which contains at least 0.1% human or bovine serum albumin to prepare a stock solution of no less than 20 µg/ml and vortex thoroughly.
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-1; NAP-1;
Gene ID	3576

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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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