

## Active Human IL8

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

### SPECIFICATION

<b>Product Overview</b>	It is a synthetic Protein
<b>Species</b>	Human
<b>Source</b>	E.coli
<b>Description</b>	<p>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.</p>
<b>Form</b>	Lyophilized
<b>Bio-activity</b>	<p>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.</p>

 Tel: 1-631-559-9269 1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

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

 Tel: 1-631-559-9269 1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

<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;

 Tel: 1-631-559-9269 1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA