Active Recombinant Human interleukin 8 (aa 1-77)

Cat. No. IL8-232H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Interleukin-8 Human Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 77 amino acids and having a molecular mass of 8904 Dalton.The IL-8 is purified by proprietary chromatographic techniques.
Species	Human
Source	Human
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.
Form	The IL-8 was lyophilized from a concentrated (1mg/ml) solution in water containing no additives.
Purity	Greater than 98.0% as determined by(a) Analysis by RP-HPLC; (b) Analysis by SDS-PAGE.
Bio-activity	Specific Activity of IL8 in chemotaxis of donor PBL neutrophils, threshold concentration corresponding to 10~100 ng/ml.
Physical Appearance	Sterile Filtered White lyophilized (freeze-dried) powder.

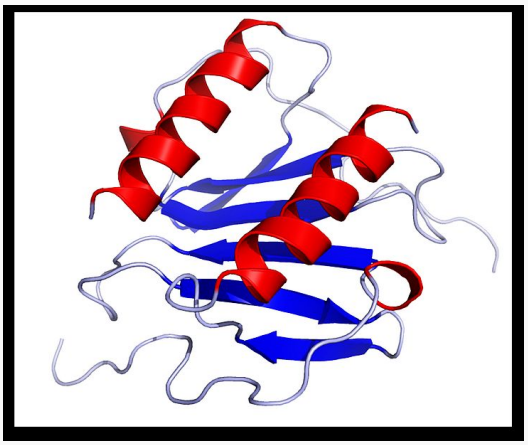
Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

Solubility	It is recommended to reconstitute the lyophilized Interleukin-8 in sterile 18Mμ-cm H2O not less than 100μg/ml, which can then be further diluted to other aqueous solutions.
Amino acid sequence	The sequence of the first five N-terminal amino acids was determined and was found to be Ser-Ala-Lys-Glu-Leu.
Protein content	Protein quantitation was carried out by two independent methods: 1. UV spectroscopy at 280 nm using the absorbency value of 0.85 as the extinction coefficient for a 0.1% (1mg/ml) solution. This value is calculated by the PC GENE computer analysis program of protein sequences (IntelliGenetics). 2. Analysis by RP-HPLC, using a standard solution of IL-8 as a Reference Standard.
Storage	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]
Official Symbol	IL8
Synonyms	IL-8; 3-10C; AMCF-I; CXCL8; GCP-1; MDNCF; Monocyte-derived neutrophil chemotactic factor; GCP1; T-cell chemotactic factor; Neutrophil-activating protein 1; NAP-1; Protein 3-10C; Granulocyte chemotactic protein 1; Monocyte-derived neutrophil-activating peptide; MONAP; Emoctakin; K60; NAF; LECT; LUCT; LYNAP; SCYB8; TSG-1; b-ENAP; NAP1; C-X-C motif chemokine 8; Interleukin-8 precursor; beta-thromboglobulin-like protein; chemokine (C-X-C motif) ligand 8; lymphocyte-

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	derived neutrophil-activating factor; small inducible cytokine subfamily B member 8; interleukin 8
Gene ID	3576
mRNA Refseq	NM_000584
Protein Refseq	NP_000575
MIM	146930
UniProt ID	P10145
Chromosome Location	4q13-q21
Pathway	Cytokine-cytokine receptor interaction; Epithelial cell signaling in Helicobacter pylori infection; Leukocyte transendothelial migration; Toll-like receptor signaling pathway
Function	chemokine activity; interleukin-8 receptor binding; protein binding
PDB rendering based on 1 IL8.	

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