

Recombinant Human Interleukin 8, 79aa, His-tagged

Cat. No. IL8-38H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human Interleukin-8 produced in <i>E. Coli</i> single, a non-glycosylated, Polypeptide chain containing 77 amino acids fragment (23-99) and having a total molecular mass of 15kDa with an amino-terminal his-tagged. The IL-8 His is purified by proprietary chromatographic techniques.
Species	Human
Source	E.coli
ProteinLength	23-99 a.a.
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. IL-8 is one such chemokine. It serves as a chemical signal that attracts neutrophils at the site of inflammation, and therefore is also known as Neutrophil Chemotactic Factor.
Physical Appearance	Sterile Filtered clear solution.
Purity	Greater than 95.0% as determined by:(a) Analysis by RP-HPLC. (b) Analysis by SDS-PAGE.

 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

Formulation	IL8 His (0.17mg/ml) is supplied in 1x PBS and 50% glycerol.
Biological Activity	Specific Activity of IL8 in chemotaxis of donor PBL neutrophils, threshold concentration corresponding to 25ng/ml.
Storage	Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. Please avoid freeze thaw cycles.

GENE INFORMATION

Gene Name	IL8 interleukin 8 [Homo sapiens]
Synonyms	NAF; GCP1; LECT; LUCT; NAP1; CXCL8; GCP-1; LYNAP; MDNCF; MONAP; NAP-1; IL8; interleukin 8; emoctakin; T cell chemotactic factor neutrophil-activating peptide 1; chemokine (C-X-C motif) ligand 8; beta-thromboglobulin-like protein; granulocyte chemotactic protein 1; monocyte-derived neutrophil chemotactic factor; small inducible cytokine subfamily B, member 8; lymphocyte-derived neutrophil-activating factor; C-X-C motif chemokine 8; Monocyte-derived neutrophil chemotactic factor; IL8/NAP1 form VI; GCP/IL-8 protein III; Neutrophil-activating factor; MDNCF-c; IL8/NAP1 form III; GCP/IL-8 protein I; (Ser-IL-8) ⁷² ; MDNCF-b; IL8/NAP1 form II; GCP/IL-8 protein IIv(Ala-IL-8) ⁷⁷ ; Interleukin-8; IL-8; Monocyte-derived neutrophil chemotactic factor; T-cell chemotactic factor Neutrophil-activating protein 1; Protein 3-10C; Monocyte-derived neutrophil-activating peptide; Emoctakin
Gene ID	3576
mRNA Refseq	NM_000584
Protein Refseq	NP_000575
MIM	146930

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UniProt ID	P10145
Chromosome Location	4q13-q21
Pathway	Bladder cancer; Chemokine signaling pathway; Cytokine-cytokine receptor interaction; Epithelial cell signaling in Helicobacter pylori infection; Pathways in cancer; RIG-I-like receptor signaling pathway; Toll-like receptor signaling pathway
Function	chemokine activity; interleukin-8 receptor binding; protein binding

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