

IL8

Recombinant Human Interleukin-8/CXCL8 (72 aa)

Catalog No.	CRI110A CRI110B CRI110C	Quantity:	5 µg 25 µg 1.0 mg
Alternate Names:	NAF; GCP1; LECT; LUCT; NAP1; CXCL8; GCP-1; LYNAP; MDNCF; MONAP; NAP-1; IL8, interleukin-8, emoctakin, , C-X-C motif chemokine 8, T cell chemotactic factor, 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, monocyte-derived neutrophil-activating peptide, small inducible cytokine subfamily B, member 8, lymphocyte-derived neutrophil-activating factor		
Gene ID:	3576		
UniProt ID:	P10145		
Description:	<p>Recombinant Human IL-8 is a single, non-glycosylated polypeptide chain containing 77 amino acids.</p> <p>Background: Interleukin-8 (IL-8)/CXCL8 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 chemotactic factor (NCF), neutrophil activating protein (NAP), monocytederived neutrophil chemotactic factor (MDNCF), T-lymphocyte chemotactic factor (TCF), granulocyte chemotactic protein (GCP) and leukocyte adhesion inhibitor (LAI). Many cell types, including monocyte/macrophages, T cells, neutrophils, fibroblasts, endothelial cells, keratinocytes, hepatocytes, chondrocytes, and various tumor cell lines, can produce CXCL8 in response to a wide variety of pro-inflammatory stimuli such as exposure to IL-1, TNF, LPS, and viruses. CXCL8 is a member of the alpha (C-X-C) subfamily of chemokines, which also includes platelet factor 4, GRO, IP-10, etc.</p>		
Source:	<i>E. coli</i>		
Molecular Weight:	8.4 kDa		
Formulation:	Lyophilized from a 0.2 µm filtered concentrated solution in PBS, pH 7.4.		
Purity:	> 96% by HPLC and SDS-PAGE		
Endotoxin Level:	Less than 1EU/µg of rHuIL-8/CXCL8(72a.a.)as determined by LAL method.		
Biological Activity:	Fully biologically active when compared to standard. The ED ₅₀ as determined by a chemotaxis bioassay using human CXCR2 transfected mouse BaF3 cells is less than 2 ng/ml, corresponding to a specific activity of > 5.0 × 10 ⁵ IU/mg.		
Amino Acid Sequence:	SAKELRCQCI KTYSKPFHPK FIKELRVIES GPHCANTEII VKLSDGRELC LDPKENWVQR VVEKFLKRAE NS		

Reconstitution: **Centrifuge vial prior to opening.** Reconstitute in sterile distilled water or aqueous buffer to a concentration of 0.1-1.0 mg/mL. Stock solutions should be apportioned into working aliquots and stored at $<-20^{\circ}\text{C}$. Further dilutions should be made in appropriate buffered solutions.

Storage & Stability: This lyophilized preparation is stable at $2-8^{\circ}\text{C}$, but should be kept at -20°C for long term storage, preferably desiccated. Upon re-constitution, the preparation is stable for up to one week at $2-8^{\circ}\text{C}$. For maximal stability, apportion the reconstituted preparation into working aliquots and store at -20°C to -80°C . **Avoid repeated freeze/thaw cycles.**

NOT FOR HUMAN USE. FOR RESEARCH ONLY. NOT FOR DIAGNOSTIC OR THERAPEUTIC USE.

