

Interleukin-8

Human, Recombinant (rHuIL-8 /77)

Expressed in *E. coli*

Cat. No. CRP0823

Lot. No. (See product label)

PRODUCT INFORMATION

Description: Interleukin-8 (IL-8) belongs to the neutrophil-specific CXC family of chemokines. It is one of the initial cytokines released from a variety of cell types, including T cells, endothelial cells and fibroblasts, in response to an inflammatory stimulus and acts by recruiting neutrophils, T-cells and basophils to the site of inflammation. Elevated Interleukin-8 levels are associated with the onset of a variety of disease states.

Amino-Acid Sequence: 77aa (The sequence of the first five N-terminal amino acids was determined and was found to be Ala-Val-Leu-Pro-Arg.), non-glycosylated.

M. W. : 8,904 Da

Recombinant: Expressed in *E. coli*

Purity: >95% as determined by RP-HPLC and SDS-PAGE .

Formulation: Lyophilized from a concentrated (1mg/ml) solution containing 20mM PBS pH-7.4 and 50mM sodium chloride.

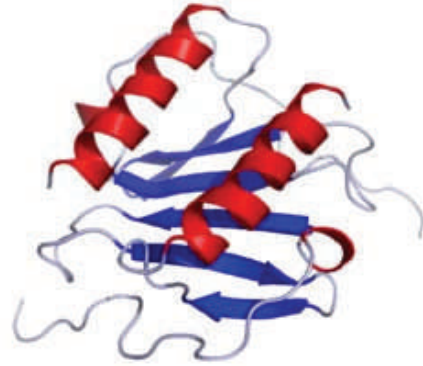
Specific Activity: rHuIL-8 /77 is fully biologically active when compared to standard. The ED50 as determined by its chemotaxis of hCXCR-2 transfected mouse BaF/3 cells is less than 2 ng/ml, corresponding to a Specific Activity of 5.0×10^5 IU/mg.

Endotoxin: Less than 0.1ng/μg (1 IEU/μg) determined by LAL test.

Reconstitution: It is recommended to reconstitute the lyophilized rHuIL-8 /77 in sterile 18MΩ-cm H₂O not less than 100μg/ml, which can then be further diluted to other aqueous solutions.

Storage: Lyophilized rHuIL-8 /77 although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution rHuIL-8 /77 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). Aliquot to avoid repeated freeze-thaw cycles.

FOR RESEARCH USE ONLY



[PDB](#) rendering based on 1IL8.

GENE INFORMATION

Gene Name: [IL8](#)

Gene Alias: 3-10C, AMCF-I, CXCL8, GCP-1

Gene Type: protein coding

mRNA Refseq: [NM_000584](#)

Protein Refseq: [NP_000575](#)

MIM: [146930](#)

GeneID: [3576](#)

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;

REFERENCES

- 1.Wolff B, Burns AR, et al. Endothelial cell "memory" of inflammatory stimulation: human venular endothelial cells store interleukin 8 in Weibel-Palade bodies. J Exp Med. 1998 Nov 2;188(9):1757-1762
- 2.Utgaard JO, Jahnsen FL, et al. Rapid secretion of prestored interleukin 8 from Weibel-Palade bodies of microvascular endothelial cells. J Exp Med. 1998 Nov 2;188(9):1751-1756
- 3.Köhidaï L, Csaba G. Chemotaxis and chemotactic selection induced with cytokines (IL-8, RANTES and TNF-alpha) in the unicellular Tetrahymena pyriformis. Cytokine. 1998; 10: 481-486

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