



RayBiotech, Inc.

3607 Parkway Lane suite 200

Norcross, GA 30092

Tel: 770-729-2992, 1-888-494-8555

Fax: 770-206-2393

Website: www.raybiotech.com

Email: info@raybiotech.com

Recombinant Human Interleukin 8 (IL-8)

Catalog No.	Size	Species	Protein Accession No.
230-00010	10, 50, 100 µg	Human	AAH13615

Synonyms

IL8; AMCF-I; CXCL8; GCP-1; K60; LECT; LUCT; LYNAP; MDNCF; MONAP; NAF; NAP-1; SCYB8; TSG-1; b-ENAP

Description

Interleukin-8 (IL-8) is one member of the CXC chemokine family and produced by macrophages and other cell types such as epithelial cells. IL-8 is secreted from the cells and is one of important mediators of the immune reaction in the innate immune system response. IL-8 induce the chemotaxis in its target cells (e.g. neutrophil granulocytes) and recruit neutrophils to phagocytose the antigen which trigger the antigen pattern toll-like receptors. Interleukin-8 is often associated with inflammation such as gingivitis, psoriasis.

Preparation

The human *IL-8* (Ala23-Ser99) gene without signal peptide coding sequence was cloned and expressed in *Escherichia coli*. The recombinant protein has an *N*-terminal 6×histidine tag and was purified by immobilized metal ion affinity chromatography (IMAC).

Source

Recombinant histidine-tagged protein, purified from *E. coli*.

Predicted Molecular Mass

~12 kDa with the 6×histidine tag.

Formulation

- Fine white powder, lyophilized.
- Recombinant IL-8 constituted in a 0.2 µm filtered phosphate-buffered saline (PBS) before lyophilized. It is recommended to briefly spin the vial prior to opening to bring the contents to the bottom, and

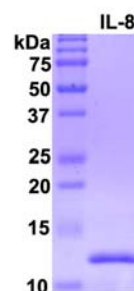
reconstitute the lyophilized product with sterile 18 MΩ-cm deionized water or your desired buffer to a concentration of 0.1-1.0 mg/mL.

Stability & Storage

- Lyophilized product is stable at room temperature for 3 weeks, it is recommended to be stored desiccated below -20°C in a manual defrost freezer.
- Upon reconstituted, the protein should be stored at 4°C for one week. For long term storage, it is recommended to add a carrier protein (0.1% HSA or BSA) and store at -20 or -80°C. **Please avoid repeated freeze-thaw cycles.**

Purity

>95%, determined by SDS-PAGE and stained with Coomassie blue (see image below).



References

- Wolff B, et al. (1998). Endothelial cell "memory" of inflammatory stimulation: human venular endothelial cells store interleukin 8 in Weibel-Palade bodies. *J. Exp. Med.* 188 (9): 1757-62.
- Modi WS, et al. (1990). Monocyte-derived neutrophil chemotactic factor (MDNCF/IL-8) resides in a gene cluster along with several other members of the platelet factor 4 gene superfamily. *Hum. Genet.* 84 (2): 185-7.
- Utgaard JO, et al. (1998). Rapid secretion of prestored interleukin 8 from Weibel-Palade bodies of microvascular endothelial cells. *J. Exp. Med.* 188 (9): 1751-6.

**The products are furnished for LABORATORY RESEARCH USE ONLY.
Not for diagnostic or therapeutic use.**