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California Bioscience

Product Datasheet

Product Name	Recombinant Human Interleukin-8 (1-77 a.a.), (CXCL8) Pichia
Cata No	CB501259
Source	*Pichia Pastoris*
Synonyms	IL-8, CXCL8, Monocyte-derived neutrophil chemotactic factor, MDNCF, T-cell chemotactic factor, Neutrophil-activating protein 1, NAP-1, Protein 3-10C, Granulocyte chemotactic protein 1, GCP-1, Monocyte-derived neutrophil-activating peptide, MONAP, Emoctakin, K60, NAF, LECT, LUCT, 3-10C, LYNAP, SCYB8, TSG-1, AMCF-I, b-ENAP.

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.
Interleukin-8 Human Recombinant produced in Yeast is a single, glycosylated polypeptide chain containing 79 amino acids and having a molecular mass of 9 kDa.
The IL-8 is purified by proprietary chromatographic techniques.

Physical Appearance

Sterile Filtered White lyophilized (freeze-dried) powder.

Biological Activity

Specific Activity of IL8 in chemotaxis of donor PBL neutrophils, threshold concentration corresponding to 25ng/ml.

Purity

Greater than 98.0% as determined by:
(a) Analysis by RP-HPLC.
(b) Analysis by SDS-PAGE.

Formulation

Lyophilized from a concentrated (1mg/ml) solution in water containing 20mM sodium phosphate buffer pH-8.

Reconstitution

It is recommended to reconstitute the lyophilized Interleukin 8 in sterile 18MΩ-cm H_2O not less than 100µg/ml, which can then be further diluted to other aqueous solutions.

Stability

Lyophilized Interleukin-8 although stable at room temperature for 3 weeks, should be stored desiccated below -18℃. Upon reconstitution CXCL8 should be stored at 4℃ between 2-7 days and for future use below -18℃.

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