

Datasheet

Interleukin 8

Human Recombinant

Product	Description	Catalogue-No.	Size
IL-8 (1-77)	Interleukin-8 human rec. (1-77 a.a) (CXCL8) human recombinant	CB-2130808	5 µg

Product description

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.

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.

IL-8 human rec. produced in E.Coli is a single, non-glycosylated polypeptide chain containing 77 amino acids and having a molecular mass of 8904 Dalton.

IL-8 human rec. is purified by proprietary chromatographic techniques.

Solubility and storage conditions

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

Lyophilized IL-8 although stable at room temperature for 3 weeks, should be stored desiccated below -20°C. Upon reconstitution IL-8 should be stored at 2-8°C between 2-7 days and for future use below -20°C.

For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.

Composition

Lyophilized from PBS, pH 7.4.

Purity: > 95.0% as determined by SDS-PAGE and RP-HPLC

Amino acid sequence: AVLPRSAKEL RCQCIKTYSK PFHPKFIKEL RVIESGPHCA NTEIIVKLSD GRELCLDPKE NWWQRVVEKF LKRAENS.

Biological activity: Determined by the ability to chemoattract human peripheral blood neutrophils using a concentration range of 25 to 150 ng/ml.

Technical support

For technical support, questions or remarks please contact your local PAN-Biotech partner or the technical department of PAN-Biotech via email (info@pan-biotech.com) or phone +49-8543-601630.

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