

Overview

Synonyms	CXCL8, monocyte-derived neutrophil chemotactic factor (MDNCF), neutrophil activating factor (NAF), NAP-1
Description	Interleukin-8 is one of the first discovered chemokines, and belongs to the CXCL family, in which the first two conserved cysteines are separated by one residue. <i>In vivo</i> , IL-8 exists in two forms: 77 a.a. produced by endothelial cells, and the more active 72 a.a. produced by monocytes. The receptors of IL-8 are the seven-helical G-protein coupled receptors CXCR1 and CXCR2, exclusively expressed on neutrophils. The functions of IL-8 are to induce rapid changes in cellular shape, activate the integrins, and release the granule contents of neutrophils. Thus, IL-8 can enhance the antimicrobial actions of defense cells. Recombinant human Interleukin-8/CXCL8 (rhIL-8) produced in <i>E. coli</i> is a single non-glycosylated polypeptide chain containing 72 amino acids. A fully biologically active molecule, rhIL-8 has a molecular mass of 8.4 kDa analyzed by reducing SDS-PAGE and is obtained by proprietary chromatographic techniques.
Accession No	P10145
Species	Human
Source	<i>E. coli</i>
Biological Activity	ED ₅₀ < 20 ng/mL, measured by the FLIPR assay using CHO cells transfected with human CXCR1, the receptor of human CXCL8, corresponding to a specific activity of > 5×10 ⁴ units/mg.
Sequence	SAKELRCQCI KTYSKPFHPK FIKELRVIES GPHCANTEII VKLSGDRELC LDPKENWVQR VVEKFLKRAE NS

Properties

Measured Molecular Weight	8.4 kDa, observed by reducing SDS-PAGE.
Purity	> 95% as analyzed by SDS-PAGE and HPLC.
Formulation	Lyophilized after extensive dialysis against PBS.
Reconstitution	Reconstituted in ddH ₂ O at 100 µg/mL.
Endotoxin Level	< 0.2 EU/µg, determined by LAL method.
Storage	Lyophilized recombinant human Interleukin-8/CXCL8 (rhIL-8) remains stable up to 6 months at lower than -70°C from date of receipt. Upon reconstitution, rhIL-8 remains stable up to 2 weeks at 4°C or up to 3 months at -20°C.
Note	For research use only

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