

## **DATASHEET** Version 20181206

## IL-8/CXCL8 (8-79aa), Human

Cat. No.: Z03061-1

**Size**: 1.0 mg

**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. *In vivo*, 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 I Interleukin-8/CXCL8 (rhIL-8) produced in *E. coli* 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 at GenScript.

## **Amino Acid Sequence:**

00001 SAKELRCQCI KTYSKPFHPK FIKELRVIES GPHCANTEII 00041 VKLSDGRELC LDPKENWVQR VVEKFLKRAE NS Source: E. coli Species: Human

**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 >  $5 \times 10^4$  units/mg.

**Molecular Weight**: 8.4 kDa, observed by reducing SDS-PAGE.

**Formulation**: Lyophilized after extensive dialysis against PBS.

**Reconstitution**: Reconstituted in  $ddH_2O$  at 100  $\mu g/mL$ .

 $\mbox{\bf Purity:} > 95\%$  as analyzed by SDS-PAGE and HPLC.

**Endotoxin Level**:  $< 0.2 \text{ EU/}\mu\text{g}$ , 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.

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