## 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 sepa－ rated 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 antimicro－ bial 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 tech－ niques at GenScript．

## Amino Acid Sequence：

00001 SAKELRCQCI KTYSKPFHPK FIKELRVIES GPHCANTEII
00041 VKLSDGRELC LDPKENWVQR VVEKFLKRAE NS

Source：E．coli
Species：Human
Biological Activity：$E D_{50}<20 \mathrm{ng} / \mathrm{mL}$ ，measured by the FLIPR assay using CHO cells transfected with human CXCR1，the receptor of human CXCL8，cor－ responding to a specific activity of $>5 \times 10^{4}$ units $/ \mathrm{mg}$ ．
Molecular Weight： 8.4 kDa ，observed by reducing SDS－PAGE．

Formulation：Lyophilized after extensive dialysis against PBS．
Reconstitution：Reconstituted in $\mathrm{ddH}_{2} \mathrm{O}$ at 100 $\mu \mathrm{g} / \mathrm{mL}$ ．
Purity：＞ $95 \%$ as analyzed by SDS－PAGE and HPLC．

Endotoxin Level：＜0．2 EU／$\mu \mathrm{g}$ ，determined by LAL method．

Storage：Lyophilized recombinant human Interleukin－8／CXCL8（rhIL－8）remains stable up to 6 months at lower than $-70^{\circ} \mathrm{C}$ from date of receipt． Upon reconstitution，rhlL－8 remains stable up to 2 weeks at $4^{\circ} \mathrm{C}$ or up to 3 months at $-20^{\circ} \mathrm{C}$ ．

