

## Overview

<b>Synonyms</b>	CXCL8, monocyte-derived neutrophil chemotactic factor (MDNCF), neutrophil activating factor (NAF), NAP-1
<b>Description</b>	<p><b>Interleukin-8</b> 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: a 77 a.a. protein produced by endothelial cells, and the more active 72 a.a. protein produced by monocytes. The receptors for 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 cell morphology, activate integrins, and release the granule contents of neutrophils. Thus, IL-8 can enhance the antimicrobial actions of defense cells.</p> <p>Recombinant <b>human Interleukin-8 (IL-8, 77aa)/CXCL8</b> produced in <i>E. coli</i> is a single non-glycosylated polypeptide chain containing 77 amino acids. A fully biologically active molecule, rhIL-8(77aa)/CXCL8 has a molecular mass of 8.9 kDa analyzed by reducing SDS-PAGE and is obtained by chromatographic techniques.</p>
<b>Accession No</b>	P14210
<b>Species</b>	Human
<b>Source</b>	<i>E. coli</i>
<b>Biological Activity</b>	The EC <sub>50</sub> value of human IL-8(77aa) on Ca <sup>2+</sup> mobilization assay in CHO-K1/Gα15/hCXCR1 cells (human Ga15 and human CXCR1 stably expressed in CHO-K1 cells) is less than 150 ng/ml.
<b>Sequence</b>	AVLPRSAKEL RCQCIKTYSK PFHPKFIKEL RVIESGPHCA NTEIIVKLSL GRELCLDPKE NWWQRVVEKF LKRAENS

## Properties

<b>Measured Molecular Weight</b>	8.9 kDa, observed by reducing SDS-PAGE.
<b>Purity</b>	> 95% as analyzed by SDS-PAGE.
<b>Formulation</b>	Lyophilized after extensive dialysis against PBS.
<b>Reconstitution</b>	Reconstituted in ddH <sub>2</sub> O or PBS at 100 µg/ml.
<b>Endotoxin Level</b>	< 0.2 EU/µg, determined by LAL method.
<b>Storage</b>	Lyophilized recombinant <b>human Interleukin-8 (IL-8)(77aa)/CXCL8</b> remains stable up to 6 months at lower than -70°C from date of receipt. Upon reconstitution, recombinant human Interleukin-8 (IL-8)(77aa)/CXCL8 should be stable up to 1 week at 4°C or up to 2 months at -20°C.
<b>Note</b>	For research use only

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