

## Recombinant Human Interleukin-8, 72aa/CXCL8 (Human IL-8,72aa/CXCL8)

### Product Information

Product Name	Cat#	Size
	90189ES08	5 µg
Recombinant Human Interleukin-8, 72aa/CXCL8 (Human IL-8,72aa/CXCL8)	90189ES60	100 µg
	90189ES76	500 µg

### Product Description

Interleukin-8 (IL-8), also known as CXCL8, GCP-1, and NAP-1, is a widely expressed proinflammatory member of the CXC family of chemokines. This chemokine is secreted by a variety of cell types including monocyte/macrophages, T cells, neutrophils, fibroblasts, endothelial cells, and various tumor cell lines in response to inflammatory stimuli (IL1, TNF, LPS, etc). IL-8/CXCL8 can associate into a homodimer or a heterodimer with CXCL4/PF4 (2), and it can interact with matrix and cell surface glycosaminoglycans. Near its N-terminus, this 8-9 kDa chemokine contains an ELR motif which is important for its angiogenic properties. Numerous observations have established IL-8/CXCL8 as a key mediator in neutrophil-mediated acute inflammation due to its potent actions on neutrophils. In addition, IL-8/CXCL8 has crucial roles in various pathological conditions such as chronic inflammation and cancer. It induces VEGF expression, vascular endothelial cell proliferation, angiogenesis, and tumor cell invasiveness.

### Product Properties

<b>Synonyms</b>	(Ser-IL-8)72, GCP/IL-8 protein I, IL8/NAP1 form III, LYNAP, MDNCF-c, NAF
<b>Accession</b>	P10145
<b>GeneID</b>	3576
<b>Source</b>	E.coli-derived Human IL-8,72aa/CXCL8, Ser28-Ser99.
<b>Molecular Weight</b>	Approximately 8.4 kDa.
<b>AA Sequence</b>	SAKELRCQCI KTYSKPFHPK FIKELRVIES GPHCANTEII VKLSDGRELC LDPKENWVQR VVEKFLKRAE NS
<b>Tag</b>	None
<b>Physical Appearance</b>	Sterile Filtered White lyophilized (freeze-dried) powder.
<b>Purity</b>	> 97% by SDS-PAGE and HPLC analyses. The ED <sub>50</sub> as determined by a chemotaxis bioassay using human CXCR2 transfected mouse BaF3 cells is
<b>Biological Activity</b>	less than 2 ng/mL, corresponding to a specific activity of > 5.0 × 10 <sup>5</sup> IU/mg. Fully biologically active when compared to standard.
<b>Endotoxin</b>	< 1.0 EU per 1µg of the protein by the LAL method.
<b>Formulation</b>	Lyophilized from a 0.2 µm filtered concentrated solution in PBS, pH 7.4. We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom.
<b>Reconstitution</b>	Reconstitute in sterile distilled water or aqueous buffer containing 0.1% BSA to a concentration of 0.1-1.0 mg/mL. Stock solutions should be apportioned into working aliquots and stored at ≤ -20°C. Further dilutions should be made in appropriate buffered solutions.

### Shipping and Storage

The products are shipped with ice pack and can be stored at  $-20^{\circ}\text{C}$  to  $-80^{\circ}\text{C}$  for 1 year.

Recommend to aliquot the protein into smaller quantities when first used and avoid repeated freeze-thaw cycles.

### **Cautions**

1. Avoid repeated freeze-thaw cycles.
2. For your safety and health, please wear lab coats and disposable gloves for operation.
3. For research use only.