

# Recombinant Human IL-8/CXCL8 Protein (E.coli)

Catalog Number:PKSH030277



**Note:** Centrifuge before opening to ensure complete recovery of vial contents.

## Description

### Synonyms

Interleukin-8;IL-8;C-X-C Motif Chemokine 8;Emoctakin;Granulocyte Chemotactic Protein 1;GCP-1;Monocyte-Derived Neutrophil Chemotactic Factor;MDNCF;Monocyte-Derived Neutrophil-Activating Peptide;MONAP;Neutrophil-Activating Protein 1;NAP-1;Protein 3-10C;T-Cell Chemotactic Factor;GCP1;IL8;Interleukin-8;LECT;LUCT;LYNAP;MDNCF;MONAP;NAF;NAP-1;NAP1

### Species

Human

### Expression Host

E.coli

### Sequence

Ser 28-Ser 99

### Accession

NP\_000575.1

### Calculated Molecular Weight

8.5 kDa

### Tag

None

## Properties

### Purity

> 95 % as determined by reducing SDS-PAGE.

### Endotoxin

Please contact us for more information.

### Storage

Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.

### Shipping

This product is provided as lyophilized powder which is shipped with ice packs.

### Formulation

Lyophilized from sterile PBS, pH 7.4

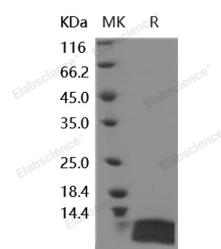
Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization.

Please refer to the specific buffer information in the printed manual.

### Reconstitution

Please refer to the printed manual for detailed information.

## Data



> 95 % as determined by reducing SDS-PAGE.

## Background

Interleukin 8 (IL-8), also known as CXCL8, which is a chemokine with a defining CXC amino acid motif that was initially characterized for its leukocyte chemotactic activity, is now known to possess tumorigenic and proangiogenic properties as well. 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. In human gliomas, IL-8 is expressed and secreted at high levels both in vitro and in vivo, and recent experiments suggest it is critical

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to glial tumor neovascularity and progression. Levels of IL-8 correlate with histologic grade in glial neoplasms, and the most malignant form, glioblastoma, shows the highest expression in pseudopalisading cells around necrosis, suggesting that hypoxia/anoxia may stimulate expression. Accumulating evidence has demonstrated that various types of cells can produce a large amount of IL-8/CXCL8 in response to a wide variety of stimuli, including proinflammatory cytokines, microbes and their products, and environmental changes. Numerous observations have established IL-8/CXCL8 as a key mediator in neutrophil-mediated acute inflammation due to its potent actions on neutrophils. The discovery of these biological functions suggests that IL-8/CXCL8 has crucial roles in various pathological conditions such as chronic inflammation and cancer.

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