

# Recombinant canine IL-8/CXCL8 protein

Catalog Number: ATGP4043

## PRODUCT INFORMATION

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### Expression system

HEK293

### Domain

28-101aa

### UniProt No.

P41324

### NCBI Accession No.

NP\_001003200.1

### Alternative Names

Interleukin-8, C-X-C motif chemokine 8, Chemokine (C-X-C motif) ligand 8

## PRODUCT SPECIFICATION

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### Molecular Weight

9.4 kDa (80aa)

### Concentration

0.25mg/ml (determined by BCA assay)

### Formulation

Liquid. In Phosphate-Buffered Saline (pH 7.4) containing 20% glycerol

### Purity

> 90% by SDS-PAGE

### Endotoxin level

< 1 EU per 1ug of protein (determined by LAL method)

### Tag

His-Tag

### Application

SDS-PAGE

### Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

## BACKGROUND

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### Description

IL-8/CXCL8, also known as Interleukin-8, GCP-1, and NAP-1 is a member of the CXC family of chemokines family which is widely expressed proinflammatory. IL-8 is a potent neutrophil chemotactic factor. It attracts neutrophils, basophils, and T-cells, but not monocytes. This protein has two primary functions. It induces chemotaxis in target cells, primarily neutrophils but also other granulocytes, causing them to migrate toward the site of

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infection. IL-8 also stimulates phagocytosis once they have arrived. IL-8 is also known to be a potent promoter of angiogenesis. In target cells, IL-8 induces a series of physiological responses required for migration and phagocytosis, such as increases in intracellular Ca<sup>2+</sup>, exocytosis, and the respiratory burst. Among the receptors on the surface membrane capable of binding IL-8, the most frequently studied receptors are CXCR1 and CXCR2. Expression and affinity for IL-8 differs between the two receptors (CXCR1 > CXCR2). Recombinant canine IL-8/CXCL8, fused to His-tag at C-terminus, was expressed in HEK293 cell and purified by using conventional chromatography techniques.

## Amino acid Sequence

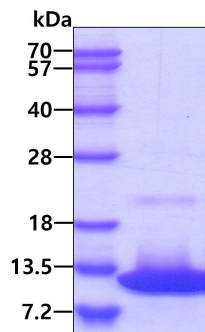
VSSELRCQCI KTHSTPFHPK YIKELRVIDS GPHCENSEII VKLFNGNEVC LDPKEKVVQK VVQIFLKKAE KQDP&lt;HHHHHH&gt;

## General References

- Lazennec, G. and A. Richmond (2010) Trends Mol. Med. 16:133-144.  
Munoz, L.M. et al. (2009) J. Immunol. 183:7337-7346.  
Bergin, D.A. et al. (2010) J. Clin. Invest. 120:4236-4250.

## DATA

### SDS-PAGE



3 $\mu$ g by SDS-PAGE under reducing condition and visualized by coomassie blue stain