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## Recombinant canine IL-8/CXCL8 protein

Catalog Number: ATGP4043

#### **PRODUCT INFORMATION**

### **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

## **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**

#### **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 Ca2+, exocytosis, and the respiratory burst. Among the eceptors 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**

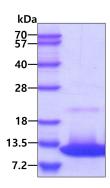
VSSELRCQCI KTHSTPFHPK YIKELRVIDS GPHCENSEII VKLFNGNEVC LDPKEKWVQK VVQIFLKKAE KQDP<HHHHHHH>

#### **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**



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain

