

## IL 8 Canine

**Description:** Interleukin-8 Canine Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 79 amino acids and having a molecular mass of 9.1kDa. The IL8 is purified by proprietary chromatographic techniques.

Catalog #:CHPS-016

**Synonyms:** Interleukin-8, IL-8, C-X-C motif chemokine 8, IL8, CXCL8.

For research use only.

**Source:** Escherichia Coli.

**Physical Appearance:** Sterile Filtered White lyophilized (freeze-dried) powder.

**Amino Acid Sequence:** AVLSRVSSEL RCQCIKTHST PFHPKYIKEL RVIDSGPHCE  
NSEIIVKLFN GNEVCLDPKE KVVQKVVQIF LKKA EKQDP.

**Purity:** Greater than 95.0% as determined by: (a) Analysis by RP-HPLC. (b) Analysis by SDS-PAGE.

**Formulation:**

Lyophilized from a 0.2

**Stability:**

Lyophilized IL-8 although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution IL-8 should be stored at 4°C between 2-7 days and for future use below -18°C. Please prevent freeze-thaw cycles.

**Usage:**

NeoBiolab's products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

**Solubility:**

It is recommended to reconstitute the lyophilized IL-8 in sterile 18M-cm H<sub>2</sub>O not less than 100

**Introduction:**

Interleukin-8 (IL-8) is a chemokine produced by macrophages and other cell types such as epithelial cells. It is also synthesized by endothelial cells, which store IL-8 in their storage vesicles, the Weibel-Palade bodies. When first encountering an antigen, the primary cells to encounter it are the macrophages who phagocytose the particle. Upon processing, they release chemokines to signal other immune cells to come in to the site of inflammation. IL-8 is one such chemokine. It serves as a chemical signal that attracts neutrophils at the site of inflammation, and therefore is also known as Neutrophil Chemotactic Factor.

**Biological Activity:**

The biological activity determined by a chemotaxis bioassay using human CXCR2 transfected murine BaF3 cells is in a concentration range of 0.15-0.75 ng/ml.

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