



Interleukin-8, canine recombinant (rcIL-8)

Catalog No: 97621
Lot No: XXXXX
Source: *E. coli*
Synonyms: Interleukin-8, IL-8, C-X-C motif chemokine 8, IL8, CXCL8

Background

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.

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 9.1 kDa. IL8 is purified by proprietary chromatographic techniques.

Physical Appearance

Sterile filtered white lyophilized (freeze-dried) powder.

Formulation

Lyophilized from a 0.2 µm filtered concentrated solution in 1 x PBS, pH 7.4.

Solubility

It is recommended to reconstitute the lyophilized IL-8 in sterile 18 MΩ-cm H₂O not less than 100 µg/ml, which can then be further diluted to other aqueous solutions.

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.

Purity

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

Amino Acid Sequence

AVLSRVSSSEL RCQCIKTHST PFHPKYIKEL RVIDSGPHCE NSEIIVKLFN GNEVCLDPKE KVVQKVVQIF LKKAEEKQDP

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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Usage

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