

Recombinant Canine IL8 protein

Cat. No. IL8-571D **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Canine IL8 protein was expressed in Escherichia coli.
Species	Canine
Source	E.coli
ProteinLength	79
Description	Interleukin-8 (IL-8) is encoded by the IL8 gene and 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. There are many receptors capable to bind IL-8, the most affinity to IL-8 are receptors CXCR1, and CXCR2. As a member of the CXC chemokine family, function of IL-8 is the induction of chemotaxis in its target cells, like neutrophil granulocytes, basophils, and T-cells. IL-8 is often associated with inflammation and has been cited as a proinflammatory mediator in gingivitis and psoriasis.
Form	Lyophilized from a 0.2µm filtered concentrated solution in 2 × PBS, pH 7.4.
Bio-activity	Fully biologically active when compared to standard. 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.
Molecular Mass	Approximately 9.1 kDa, a single non-glycosylated polypeptide chain containing 79 amino acids.

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AA Sequence	AVLSRVSSELRCQCIKTHSTPFHPKYIKELRVIDSGPHCENSEIIVKLFNGNEVCLDPK EKWVQKV VQIFLKKA EKQDP
Endotoxin	Less than 1 EU/μg of rCaIL-8/CXCL8 as determined by LAL method.
Purity	>95% by SDS-PAGE and HPLC analysis.
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 12 months from date of receipt, -20 to -70 centigrade as supplied. 1 month, 2 to 8 centigrade under sterile conditions after reconstitution. 3 months, -20 to -70 centigrade under sterile conditions after reconstitution.
Reconstitution	We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute in sterile distilled water or aqueous buffer containing 0.1 % BSA to a concentration of 0.1-1.0 mg/mL. Stock solutions should be apportioned into working aliquots and stored at ≤-20 centigrade. Further dilutions should be made in appropriate buffered solutions.

GENE INFORMATION

Gene Name	IL8
Official Symbol	IL8
Synonyms	(Ser-IL-8)72, GCP/IL-8 protein I, IL8/NAP1 form III, LYNAP, MDNCF-c, NAF
Gene ID	403850
mRNA Refseq	NM_001003200.1
Protein Refseq	NP_001003200.1

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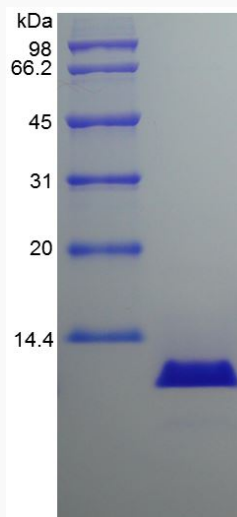
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UniProt ID

P41324

SDS-PAGE of IL8-
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