

## Recombinant Rhesus IL8 protein

Cat. No. IL8-541R Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant Rhesus IL8 protein was expressed in Escherichia coli.
<b>Species</b>	Rhesus macaque
<b>Source</b>	E.coli
<b>ProteinLength</b>	79
<b>Description</b>	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. Rhesus macaque IL-8 has approximately 94 % amino acid sequence identity with human IL-8.
<b>Form</b>	Lyophilized from a 0.2µm filtered concentrated solution in PBS, pH 7.4.
<b>Bio-activity</b>	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 0.5-5.0 ng/ml.
<b>Molecular Mass</b>	Approximately 9.14kD containing 79 amino acid residues.
<b>AA Sequence</b>	AVLPRSAKELRCECIKTYSKPFHPKFIKELRVIESGPHCANTEIIVKLSDGRELCLDPK

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EPWVQRVVEKFVKRAENQNP

**Endotoxin** Less than 1 EU/μg of rRhIL-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

**Gene ID** 613028

**mRNA Refseq** NM\_001032965.1

**Protein Refseq** NP\_001028137.1

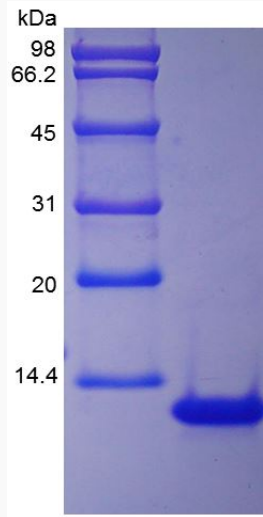
**UniProt ID** P67813

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**SDS-PAGE of IL8-541R**



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