

## Recombinant Rhesus Macaque Interleukin-8/CXCL8

#R00205

Size: 5 µg/100 µg/500 µg

### Stability & Storage

Use a manual defrost freezer and avoid repeated freeze-thaw cycles.

- 12 months from date of receipt, -20 to -70 °C as supplied.
- 1 month, 2 to 8 °C under sterile conditions after reconstitution.
- 3 months, -20 to -70 °C under sterile conditions after reconstitution.



**Warning:** This product is intended for scientific research only. It is not to be used for medical or diagnostic procedures in humans or animals, nor as a food, cosmetic, or household product.

### Background

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.

### AA Sequence

AVLPRSAKELRCECIKTYSKPFHHPKFIKELRVIESGPH  
CANTEIIVKLSDGRELCLDPKEPVVQRVVEKFVKRAE  
NQNP

### 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 °C. Further dilutions should be made in appropriate buffered solutions.

### Product Specification

|                            |                                                                                                                                                                                                                |
|----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Accession</b>           | P67813                                                                                                                                                                                                         |
| <b>GeneID</b>              | 613028                                                                                                                                                                                                         |
| <b>Species</b>             | Rhesus                                                                                                                                                                                                         |
| <b>Source</b>              | Escherichia coli.                                                                                                                                                                                              |
| <b>Molecular Weight</b>    | Approximately 9.14kD containing 79 amino acid residues.                                                                                                                                                        |
| <b>Purity</b>              | > 95 % by SDS-PAGE and HPLC analyses.                                                                                                                                                                          |
| <b>Biological 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>Physical</b>            | Sterile Filtered White Lyophilized                                                                                                                                                                             |

|             |                                                                          |
|-------------|--------------------------------------------------------------------------|
| Appearance  | (freeze-dried) powder.                                                   |
| Formulation | Lyophilized from a 0.2 μm filtered concentrated solution in PBS, pH 7.4. |
| Endotoxin   | Less than 1 EU/μg of rRhIL-8/CXCL8 as determined by LAL method.          |