

## Recombinant Murine Interleukin-19

#R00228

Size: 10 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-19 (IL-19) belongs to the IL-10 family that includes IL-10, IL-20, IL-22, IL-24, and IL-26. As a monomer made of seven amphipathic helices, IL-19 has a helical bundle and shares the same cell surface receptor (IL-20R) with IL-20 and IL-24. It may play some important roles in inflammatory responses because it up-regulates IL-6 and TNF-alpha and induces apoptosis.

### AA Sequence

LRRCLISVDMRLIEKSFHEIKRAMQTKDTFKNVTILSLE  
NLRSIKPGDVCCMTNLLTFYRDRVFDHQPERSLEV  
LRRISSIANSFLCVQKSLERCQVHRQCNCSEQEATNAT  
RIIHDNYNQLEVSSAALKSLGELNILLAWIDRNHLETPA  
A

### 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>           | Q8CJ70                                                                                                                                                                                                                     |
| <b>GeneID</b>              | 329244                                                                                                                                                                                                                     |
| <b>Unigene</b>             | Mm.131480.                                                                                                                                                                                                                 |
| <b>Species</b>             | Murine                                                                                                                                                                                                                     |
| <b>Source</b>              | Escherichia coli.                                                                                                                                                                                                          |
| <b>Molecular Weight</b>    | Approximately 17.6 kDa, a single non-glycosylated polypeptide chain containing 152 amino acids.                                                                                                                            |
| <b>Purity</b>              | > 97 % by SDS-PAGE and HPLC analyses.                                                                                                                                                                                      |
| <b>Biological Activity</b> | Fully biologically active when compared to standard. The ED <sub>50</sub> as determined by a cell proliferation assay using human IL-20Rα and human IL-20Rβ co-transfected murine BaF3 pro-B cells is less than 0.8 ng/ml, |

|                            |                                                                                                   |
|----------------------------|---------------------------------------------------------------------------------------------------|
|                            | corresponding to a specific activity of $> 1.25 \times 10^6$ IU/mg.                               |
| <b>Physical Appearance</b> | Sterile Filtered White lyophilized (freeze-dried) powder.                                         |
| <b>Formulation</b>         | Lyophilized from a 0.2 $\mu$ m filtered concentrated solution in PBS, pH 7.4, with 3 % Trehalose. |
| <b>Endotoxin</b>           | Less than 0.1 EU/ $\mu$ g of rMUL-19 as determined by LAL method.                                 |