

# Active GMP Recombinant Human IL19 protein

**Cat. No.** IL19-4332HG    **Lot. No.** (See product label)

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
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| <b>Product Overview</b> | Recombinant Human IL19 was produced in E. coli using non-animal reagents in an animal-free facility under cGMP guidelines.                                                                                                                                                                                                                                                                                                                                                    |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Source</b>           | E.coli                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Description</b>      | Human Interleukin-19 (IL-19) is encoded by the IL19 gene, which is located on the chromosome 1. The protein 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. |
| <b>Form</b>             | Lyophilized from a 0.2 µ filtered concentrated solution in PBS, pH 7.4.                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Bio-activity</b>     | Fully biologically active when compared to standard. The ED50 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 1.5 ng/ml, corresponding to a specific activity of > 6.7 × 10 <sup>5</sup> IU/mg.                                                                                                                                                                                         |
| <b>Molecular Mass</b>   | Approximately 17.9 kDa, a single non-glycosylated polypeptide chain containing 153 amino acids.                                                                                                                                                                                                                                                                                                                                                                               |
| <b>AA Sequence</b>      | LRRCLISTDMHHIEESFQEIKRAIQAKDTFPNVTILSTLETQLQIKPLDVCCVTKNLLAFY                                                                                                                                                                                                                                                                                                                                                                                                                 |

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|                          |                                                                                                                                                                                                                                                                                                                                                                                                          |
|--------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                          | VDRVFKDHQEPNPKILRKISSIANSFLYMQKTLRQCQEQRQCHCRQEATNATRVIH<br>NYDQLEVHAAAIKSLGELDVFLAWINKNHEVMSSA                                                                                                                                                                                                                                                                                                          |
| <b>Endotoxin</b>         | Less than 1 EU/g of rHuIL-19 as determined by LAL method.                                                                                                                                                                                                                                                                                                                                                |
| <b>Purity</b>            | > 95 % by SDS-PAGE and HPLC analyses.                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Storage</b>           | This lyophilized preparation is stable at 2-8 centigrade, but should be kept at -20 centigrade for long term storage, preferably desiccated. Upon reconstitution, the preparation is stable for up to one week at 2-8 centigrade. For maximal stability, apportion the reconstituted preparation into working aliquots and store at -20 centigrade to -70 centigrade. Avoid repeated freeze/thaw cycles. |
| <b>Reconstitution</b>    | 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.                                                                                                                      |
| <b>Quality Statement</b> | Our GMP proteins are produced according to relevant sections of the following documents: WHO TRS, No. 822, 1992 Annex 1, Good Manufacturing Practices for Biological Products; USP Chapter 1043, Ancillary Materials for Cell, Gene and Tissue-Engineered Products and USP Chapter 92, Growth Factors and Cytokines Used in Cell Therapy Manufacturing.                                                  |
| <b>Shipping</b>          | The product is shipped at ambient temperature. Upon receipt, store it immediately at the recommended temperature.                                                                                                                                                                                                                                                                                        |

## GENE INFORMATION

**Gene Name** IL19 interleukin 19 [ Homo sapiens (human) ]

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|------------------------|-------------------------------------------------------------------------------------------|
| <b>Official Symbol</b> | IL19                                                                                      |
| <b>Synonyms</b>        | MDA1; NG.1; ZMDA1; IL-10C; Melanoma Differentiation-associated Protein-like Protein, NG.1 |
| <b>Gene ID</b>         | 29949                                                                                     |
| <b>mRNA Refseq</b>     | NM_153758.2                                                                               |
| <b>Protein Refseq</b>  | NP_715639.1                                                                               |
| <b>MIM</b>             | 605687                                                                                    |
| <b>UniProt ID</b>      | Q9UHD0                                                                                    |

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