

## Active Recombinant Human IL19 protein

**Cat. No.** IL19-245H    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
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| <b>Product Overview</b> | Recombinant Human IL19(Leu25-Ala177) was expressed in NS0.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Source</b>           | Mammalian Cells                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>ProteinLength</b>    | 25-177 a.a.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Description</b>      | <p>Interleukin 19 (IL-19) is a member of the IL-10 family of class II alpha -helical cytokines that contains two groups, a viral homolog and cellular homolog group. Within the cellular homolog group, there are two additional groupings, one which uses IL-10 R beta as a signal transducing receptor (IL-10, IL-22, and IL-26), and one which uses IL-20 R beta as a signal transducing receptor (IL-19, IL-20, and IL-24). The 153 amino acid (aa) mature human IL-19 is secreted as a glycosylated 35-45 kDa monomer. It shares approximately 70% aa sequence identity with mouse and rat IL-19. Human IL-19 may utilize an alternate start site that adds 38 aa to the N-terminus. Although mouse IL-19 is active on human cells, human IL-19 is not active on mouse cells. IL-19 is expressed on activated keratinocytes, monocytes, and B cells. It binds a receptor complex consisting of IL-20 R alpha and IL-20 R beta. This receptor complex is also shared by IL-20 and IL-24. It has been reported that IL-19 both will and will not induce IL-6 and TNF-alpha production by monocytes. It does, however, drive T helper cell differentiation towards a Th2 response, inducing both IL-10 and production of itself.</p> |

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|-----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Predicted N Terminal</b> | Leu25                                                                                                                                                                                                                                                                                                    |
| <b>Form</b>                 | Lyophilized from a 0.2 µm filtered solution in PBS with BSA as a carrier protein.                                                                                                                                                                                                                        |
| <b>Bio-activity</b>         | Measured in a cell proliferation assay using BaF3 mouse pro-B cells transfected with human IL-20 R alpha and human IL-20 R beta. The ED50 for this effect is typically 0.1-0.6 ng/mL.                                                                                                                    |
| <b>Molecular Mass</b>       | Predicted Molecular Mass: 18 kDa<br>SDS-PAGE: 20-30 kDa, reducing conditions                                                                                                                                                                                                                             |
| <b>Endotoxin</b>            | <0.1 EU per 1 µg of the protein by the LAL method.                                                                                                                                                                                                                                                       |
| <b>Purity</b>               | >95%, by SDS-PAGE visualized with Silver Staining and quantitative densitometry by Coomassie® Blue Staining.                                                                                                                                                                                             |
| <b>Storage</b>              | Use a manual defrost freezer and avoid repeated freeze-thaw cycles.<br>12 months from date of receipt, -20 to -70 centigrade as supplied.<br>1 month, 2 to 8 centigrade under sterile conditions after reconstitution.<br>3 months, -20 to -70 centigrade under sterile conditions after reconstitution. |
| <b>Reconstitution</b>       | Reconstitute at 500 µg/mL in PBS.                                                                                                                                                                                                                                                                        |

## GENE INFORMATION

|                        |                                                                                                                                                                       |
|------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>       | IL19 interleukin 19 [ Homo sapiens ]                                                                                                                                  |
| <b>Official Symbol</b> | IL19                                                                                                                                                                  |
| <b>Synonyms</b>        | IL19; interleukin 19; interleukin-19; IL 10C; IL 19; MDA1; melanoma differentiation associated protein like protein; NG.1; ZMDA1; melanoma differentiation associated |

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protein-like protein; melanoma differentiation-associated protein-like protein; IL-10C;

|                |           |
|----------------|-----------|
| Gene ID        | 29949     |
| mRNA Refseq    | NM_013371 |
| Protein Refseq | NP_037503 |
| MIM            | 605687    |
| UniProt ID     | Q9UHD0    |

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