

## IL-19 Protein, Human, Recombinant (F175S)

### General Information

Synonyms:	Melanoma differentiation association like protein;IL-10C;NG.1;MDA1;ZMDA1;IL19
Protein Construction:	Leu25-Ala177 (Phe175Ser)
Species:	Human
Expression Host:	E. coli
Accession:	Q9UHD0
Molecular Weight:	17.9 kDa (Predicted)

### QC Testing

Biological Activity:	Fully biologically active when compared to standard. The ED 50 as determined by a cell proliferation assay using human IL-20R $\alpha$ and human IL-20R $\beta$ co-transfected murine BaF3 pro-B cells is less than 1.5 ng/ml, corresponding to a specific activity of $> 6.7 \times 10^5$ IU/mg.
Purity:	$> 95\%$ as determined by SDS-PAGE; $> 95\%$ as determined by HPLC
Endotoxin:	$< 1.0$ EU/ $\mu$ g of the protein as determined by the LAL method.
Formulation:	Lyophilized from a 0.2 $\mu$ m filtered solution in PBS, pH 7.4.

### Preparation and Storage

#### Reconstitution:

It is recommended that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute the lyophilized powder in 100 mM HAC up to 0.1-1.0 mg/ml.

#### Stability & Storage:

Upon receiving, this product remains stable for up to 6 months at  $-70^{\circ}\text{C}$  or  $-20^{\circ}\text{C}$ . Upon reconstitution, the product should be stable for up to 1 week at  $4^{\circ}\text{C}$  or up to 3 months at  $-20^{\circ}\text{C}$ . Avoid repeated freeze-thaw cycles.

Actual storage temperature shall be subject to the COA.

#### Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

### Protein Background

Interleukin-19 (IL-19) is a cytokine belonging to the interleukin family. Structurally, IL-19 is grouped into the IL-10 sub-family, which also includes IL-20, IL-22, IL-24, and IL-26. In contrast to IL-10, which exists as a homodimer, IL-19 is stable and active as a monomer in vivo. IL-19 functions through the receptor complex composed of IL-20 Receptor  $\alpha$  and IL-20 Receptor  $\beta$ , which is also utilized by IL-20 and IL-24. IL-19 is produced by active monocytes and stimulated synergistically by IL-17 and IL-13. The functions of IL-19 are to promote the development and function of Th2 cells and to enhance the production of Th2 cytokines. IL-19 is implicated in aging, vascular disease, Type I diabetes, and rheumatoid arthritis.

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