

## GFH88AF Recombinant Human IL-19 (Animal-Free)

### Description

Interleukin-19 (IL-19) is a member of the interleukin-10 (IL-10) cytokine family and is produced by B cells and monocytes. IL-19 binds the interleukin-20 receptor complex (IL-20R) to activate STAT3 signaling. IL-19 induces interleukin-6 (IL-6) and Tumor Necrosis Factor  $\alpha$  (TNF- $\alpha$ ) expression in monocytes, and promotes T helper 2 (Th2) cell-mediated immune responses. IL-19 production is up-regulated in resting monocytes following Granulocyte-Macrophage Colony-Stimulating Factor (GM-CSF) or lipopolysaccharide (LPS) stimulation.

This product is produced with no animal derived raw products. All processing and handling employs animal free equipment and animal free protocols.

<b>Length</b>	154 aa
<b>Molecular Weight</b>	17.9 kDa
<b>Source</b>	E. coli
<b>Accession Number</b>	Q9UHD0
<b>Purity</b>	$\geq 95\%$ determined by reducing and non-reducing SDS-PAGE

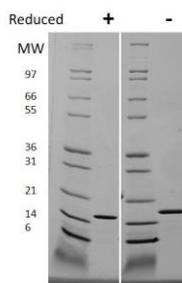
### Specifications

<b>Alternative Names</b>	Interleukin-19, interleukin 19, IL19, IL 19, melanoma differentiation associated-like protein
<b>Biological Activity</b>	Activity to be determined.
<b>Endotoxin Level</b>	$\leq 1.00$ EU/ $\mu$ g as measured by kinetic LAL
<b>Formulation</b>	Lyophilized from a sterile (0.2 micron) filtered aqueous solution containing 0.1% Trifluoroacetic Acid (TFA)
<b>AA Sequence</b>	MLRRCLISTD MHHIEESFQE IKRAIQAKDT FPNVTILSTL ETLQIIKPLD VCCVTKNLLA FYVDRVFKDH QEPNPKILRK ISSIANSFLY MQKTLRQCQE QRQCHCRQEA TNATRVIHND YDQLEVVHAAA IKSLGELDVF LAWINKNHEV MFSA

### Preparation and Storage

<b>Reconstitution</b>	Centrifuge vial before opening. When reconstituting the product, gently pipet and wash down the sides of the vial to ensure full recovery of the protein into solution. It is recommended to reconstitute the lyophilized product with sterile water at 0.1 mg/ml, which can be further diluted into other aqueous solutions.
<b>Stability and Storage</b>	12 months from date of receipt when stored at $-20^{\circ}\text{C}$ to $-80^{\circ}\text{C}$ as supplied. 1 month when stored at $4^{\circ}\text{C}$ after reconstituting as directed. 3 months when stored at $-20^{\circ}\text{C}$ to $-80^{\circ}\text{C}$ after reconstituting as directed.

### Data



Non-reducing (-) and reducing (+) conditions in a 4 - 20% Tris-Glycine gel stained with Coomassie Blue. 1  $\mu$ g of protein was loaded in each lane.  
Human IL-19 has a predicted Mw of 17.9 kDa.