



*Recombinant Human IL-19*  
(Interleukin-19)

*Catalog Number: 100-88*  
*Accession Number: Q9UHD0*

*Specifications and Uses:*

**Alternate Names:** Melanoma differentiation associated-like protein

**Description:**

Interleukin-19 (IL-19) is a member of the IL-10 family produced by resting B cells and monocytes. IL-19 is thought to be up-regulated when monocytes are treated with GM-CSF or LPS. IL-19 shares a receptor complex with IL-20, and acts to induce IL-6 and TNF- $\alpha$  production by monocytes and promotes the Th2 response. Recombinant human IL-19 is a non-glycosylated protein, containing 155 amino acids, with a molecular weight of 17.9 kDa.

**Source:** *E.coli*

**Physical Appearance:** Sterile filtered white lyophilized (freeze-dried) powder.

**Formulation and Stability:**

Recombinant human IL-19 is lyophilized from a concentrated (1mg/mL) solution in water containing 10 mM sodium citrate, pH 5.

Lyophilized product is very stable at -20°C. Reconstituted material should be aliquoted and frozen at -20°C. It is recommended that a carrier protein (0.1% HSA or BSA) is added for long term storage.

**Reconstitution:**

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 a concentration of 0.1 mg/mL, which can be further diluted into other aqueous solutions.

**Protein Content and Purity (typically  $\geq$  98%) determined by:**

HPLC, Reducing and Non-reducing SDS-PAGE, UV spectroscopy at 280 nm

**Endotoxin Level:**

Measured by kinetic LAL analysis and is typically  $\leq$  1 EU/ $\mu$ g protein.

**Biological Activity:**

The activity is determined by the activation of STAT following receptor-ligand interaction.

**AA Sequence:**

MLRRCLISTD MHHIEESFQE IKRAIQAKDT FPNVTILSTL ETLQIIPLD VCCVTKNLLA FYVDRVFKDH  
QEPNPKILRK ISSIANSFLY MQKTLRQCQE QRQCHCRQEA TNATRVIHDN YDQLEVHAAA IKSL  
Reducing and Non-reducing SDS-PAGE DVF LAWINKNHEV MSSA

**THIS PRODUCT IS FOR RESEARCH USE ONLY AND IS NOT FOR USE IN HUMANS!**

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