

Active Recombinant Human Interleukin 19

Cat. No. IL19-499H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human IL-19 produced in E.Coli is a single, non-glycosylated polypeptide chain containing 155 amino acids and having a molecular mass of 17913 Dalton.
Species	Human
Source	E.coli
Description	Interleukin-19 (IL-19) is a novel cytokine that was initially identified during a sequence data base search aimed at finding potential Interleukin-10 homologs. Interleukin-19 shares 21% amino acid identity with IL-10.
Form	Lyophilized from a concentrated (1mg/ml) solution in water containing 10mM sodium citrate pH-5.
Purity	Purity Greater than 98% as determined by: Analysis by RP-HPLC. Reducing and non-reducing SDS-PAGE.
Bio-activity	Recombinant Human Interleukin-19 is fully biologically active when compared to standard. The activity is determined by it's ability to activate STAT following receptor-ligand interaction.
Physical Appearance	Sterile Filtered white lyophilized (freeze-dried) powder.
Solubility	Centrifuge vial before opening. When reconstituting the product, gently pipet and

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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/s/ml, which can be further diluted into other aqueous solutions.

Purity Greater than 98% as determined by

Analysis by RP-HPLC. Reducing and non-reducing SDS-PAGE.

Protein Content determined by

UV spectroscopy at 280 nm. Analysis by RP-HPLC calibrated against a known standard. Quantitation on SDS-PAGE against a known standard.

Endotoxin Level

Endotoxin level as measured by LAL is <0.01ng/ug or <0.1EU/ug.

Amino acid sequence

MLRRCLISTD MHHIEESFQE IKRAIQAKDT FPNVTILSTL ETLQIIKPLD
VCCVTKNLLA FYVDRVFKDH

Storage

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

Pathways

Cytokine-cytokine receptor interaction; Jak-STAT signaling pathway

GENE INFORMATION

Gene Name

IL19 interleukin 19 [Homo sapiens]

Official Symbol

IL19

Synonyms

IL19; interleukin 19; MDA1; NG.1; ZMDA1; IL-10C; melanoma differentiation associated protein-like protein; Interleukin-19; IL-19; Melanoma differentiation-

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	associated protein-like protein
Gene ID	29949
mRNA Refseq	NM_013371
Protein Refseq	NP_037503
MIM	605687
UniProt ID	Q9UHD0
Chromosome Location	1q32.2
Function	cytokine activity

Crystalstructure of human IL-19.

