

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

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

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-

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

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.**

