

## Recombinant Human IL-19

### Information

<b>Gene ID</b>	29949
<b>Accession #</b>	Q9UHD0
<b>Alternate Names</b>	Interleukin-19, Melanoma Differentiation-associated Protein-like Protein, NG.1
<b>Source</b>	<i>Escherichia coli</i> .
<b>M.Wt</b>	Approximately 17.9 kDa, a single non-glycosylated polypeptide chain containing 153 amino acids.
<b>AA Sequence</b>	LRRCLISTDM HHIEESFQEI KRAIQAKDTF PNVITILSTLE TLQIKPLDV CCVTKNLLAF YVDRVFKDHQ EPNPKILRKI SSANSFLYM QKTLRQCQEQ RQCHCRQEAT NATRVIHDNY DQLEVHAAAI KSLGELDVFL AWINKNHEVM SSA
<b>Appearance</b>	Sterile Filtered White lyophilized (freeze-dried) powder.
<b>Stability &amp; Storage</b>	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. - 12 months from date of receipt, -20 to -70°C as supplied. - 1 month, 2 to 8°C under sterile conditions after reconstitution. - 3 months, -20 to -70°C under sterile conditions after reconstitution.
<b>Formulation</b>	Lyophilized from a 0.2 µm filtered concentrated solution in PBS, pH 7.4.
<b>Reconstitution</b>	We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute in 100 mM HAC to a concentration of 0.1-1.0 mg/mL. Stock solutions should be apportioned into working aliquots and stored at ≤ -20°C. Further dilutions should be made in appropriate buffered solutions.
<b>Biological Activity</b>	Fully biologically active when compared to standard. The ED <sub>50</sub> as determined by a cell proliferation assay using human IL-20Rα and human IL-20Rβ co-transfected murine BaF3 pro-B cells is less than 1.5 ng/ml, corresponding to a specific activity of > 6.7×10 <sup>5</sup> IU/mg.
<b>Shipping Condition</b>	Gel pack.
<b>Handling</b>	Centrifuge the vial prior to opening.
<b>Usage</b>	For Research Use Only! Not to be used in humans.

### Components and Storage

Components	10 µg	100 µg	500 µg
Recombinant Human IL-19	10 µg	100 µg	500 µg

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## Quality Control

Purity	>95% by SDS-PAGE and HPLC analyses.
Endotoxin	Less than 1 EU/μg of rHuIL-19 as determined by LAL method.

## Description

Human Interleukin-19 (IL-19) is encoded by the IL19 gene, which is located on the chromosome 1. The protein belongs to the IL-10 family that includes IL-10, IL-20, IL-22, IL-24, and IL-26. As a monomer made of seven amphipathic helices, IL-19 has a helical bundle and shares the same cell surface receptor (IL-20R) with IL-20 and IL-24. It may play some important roles in inflammatory responses because it up-regulates IL-6 and TNF-alpha and induces apoptosis.

## Reference

1. Chang C, Magracheva E, Kozlov S, et al. 2003. J Biol Chem, 278: 3308-13.
2. Gallagher G, Dickensheets H, Eskdale J, et al. 2000. Genes Immun, 1: 442-50.
3. Liao YC, Liang WG, Chen FW, et al. 2002. J Immunol, 169: 4288-97.

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