

Growth Factor Data Sheet

GoldBio growth factors are manufactured for **RESEARCH USE ONLY** and cannot be sold for human consumption!

Human interleukin-19 (IL19) is encoded by the IL19 gene, which is located on chromosome 1. The protein belongs to the IL10 family of interleukins, which includes: IL10, IL20, IL22, IL24, and IL26. As a monomer made of seven amphipathic helices, IL19 has a helical bundle and shares the same cell surface receptor (IL20R) with IL20 and IL24. IL19 may play an important roles in inflammatory responses because it promotes the upregulation of IL6 and TNF- α , induces apoptosis, and activates the autoantibody production in B-cells.

Catalog Number	1110-19
Product Name	IL19, Human Recombinant Human Interleukin-19 IL19 Interleukin 19
Source	<i>Escherichia coli</i>
MW	~17.9 kDa (153 amino acids)
Sequence	LRRCLISTDM HHIEESFQEI KRAIQAKDTF PNVTLSTLE TLQIHKPLDV CCVTKNLLAF YVDRVFKDHQ EPNPKILRKI SSIANSFLYM QKTLRQCQEQ RQCHCRQEAT NATRVIHDNY DQLEVHAAAI KSLGELDVFL AWINKNHEVM SSA
Accession Number	Q9UHD0
Purity	>95% by SDS-PAGE and HPLC analyses
Biological Activity	Fully biologically active when compared to standard. The ED ₅₀ as determined by a cell proliferation assay using human IL-20R α and human IL-20R β co-transfected murine BaF3 pro-B cells is less than 1.5 ng/ml, corresponding to a specific activity of $>6.7 \times 10^5$ IU/mg.
Formulation	Sterile filtered white lyophilized powder. Purified and tested for use in cell culture.
Storage/Handling	This lyophilized preparation is stable at 2-8°C, but should be kept at -20°C for long term storage. The reconstituted sample can be apportioned into working aliquots and stored at -80 °C for up to 6 months. Avoid repeated freeze/thaw cycles.
Reconstitution	The sample should be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute in a siliconized tube using PBS that contains a 0.1% BSA to a concentration of 0.1-1.0 mg/mL. Reconstituted solutions are stable for up to one week at 2-8°C. Stock solutions should be aliquoted and stored at -80°C. Further dilutions should be made in appropriate buffered solutions containing BSA or serum.