

## PrimeGene Technical Data Sheet

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<b>Catalog Number:</b>	101-19
<b>Source:</b>	<i>Escherichia coli</i> .
<b>Molecular Weight:</b>	Approximately 17.9 kDa, a single non-glycosylated polypeptide chain containing 153 amino acids.
<b>Quantity:</b>	2µg/10µg/1000µg
<b>AA Sequence:</b>	LRRCLISTDM HHIEESFQEI KRAIQAKDTF PNVTLSTLE TLQIIKPLDV CCVTKNLLAF YVDRVFKDHQ EPNPKILRKI SSIANSFLYM QKTLRQCQEQ RQCHCRQEAT NATRVIHDNY DQLEVHAAAI KSLGELDVFL AWINKNHEVM SSA
<b>Purity:</b>	> 95 % by SDS-PAGE and HPLC analyses.
<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-20R $\alpha$ and human IL-20R $\beta$ 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>Physical Appearance:</b>	Sterile Filtered White lyophilized (freeze-dried) powder.
<b>Formulation:</b>	Lyophilized from a 0.2 µm filtered concentrated solution in PBS, pH 7.4.
<b>Endotoxin:</b>	Less than 1 EU/µg of rHuIL-19 as determined by LAL method.
<b>Reconstitution:</b>	We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute in <b>100 mM HAC</b> 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>Shipping:</b>	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.
<b>Stability &amp; Storage:</b>	<b>Use a manual defrost freezer and avoid repeated freeze-thaw cycles.</b> <ul style="list-style-type: none"><li>● 12 months from date of receipt, -20 to -70 °C as supplied.</li><li>● 1 month, 2 to 8 °C under sterile conditions after reconstitution.</li><li>● 3 months, -20 to -70 °C under sterile conditions after reconstitution.</li></ul>
<b>Usage:</b>	This material is offered by Shanghai PrimeGene Bio-Tech for research, laboratory or further evaluation purposes. <b>NOT FOR HUMAN USE.</b>

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### **Human Interleukin-19**

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.