

## Animal-Free IL-19 Protein, Mouse (His)

Cat. No.:	HY-P700196AF
Synonyms:	Interleukin-19; IL-19; IL19; ZMDA1
Species:	Mouse
Source:	E. coli
Accession:	Q8CJ70 (L25-A176)
Gene ID:	329244
Molecular Weight:	Approximately 18.54 kDa

### PROPERTIES

AA Sequence	<div> <div>MLRRC LISVD</div> <div>NLRSIKPGDV</div> <div>SSIANSF LCV</div> <div>NQLEVSSAAL</div> </div> <div> <div>MRLIEKSFHE</div> <div>CCMTNNLLTF</div> <div>QKSLERCQVH</div> <div>KSLGELNILL</div> </div> <div> <div>IKRAMQTKDT</div> <div>YRDRVFQDHQ</div> <div>RQCNC SQEAT</div> <div>AWIDRNHLET</div> </div> <div> <div>FKNVTILSLE</div> <div>ERSLEVLRRI</div> <div>NATRIIHDNY</div> <div>PAA</div> </div>
Biological Activity	Measure by its ability to induce proliferation in BaF3 cells transfected with human IL-20 R alpha and human IL-20 R beta. The ED <sub>50</sub> for this effect is <0.6 ng/mL.
Appearance	Lyophilized powder.
Formulation	Lyophilized from a solution containing 1X PBS, pH 7.4.
Endotoxin Level	<0.1 EU per 1 µg of the protein by the LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH <sub>2</sub> O.
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

### DESCRIPTION

Background	<p>The IL-19 Protein operates as a multifaceted cytokine, acting as both an anti-inflammatory and proangiogenic factor. It plays a pivotal role in polarizing adaptive immunity towards an anti-inflammatory phenotype by inducing T-helper 2 responses. This involves a dual mechanism of down-regulating IFN-gamma and up-regulating IL4 and IL5. Notably produced by osteocytes, IL-19 further stimulates granulopoiesis and the formation of neutrophils. Its biological effects are mediated through a receptor complex composed of the IL20RA and IL20RB heterodimer. Upon binding, IL-19 activates the Janus kinase (JAK) and signal transducer and activator of transcription (STAT) pathway, with particular emphasis on STAT3,</p>
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contributing to its diverse immunomodulatory functions.

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**Caution: Product has not been fully validated for medical applications. For research use only.**

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