

## IL-19 Protein, Mouse

Cat. No.:	HY-P7213
Synonyms:	rMuIL-19; IL19
Species:	Mouse
Source:	E. coli
Accession:	Q8CJ70 (L25-A176)
Gene ID:	329244
Molecular Weight:	Approximately 18 kDa

### PROPERTIES

<b>AA Sequence</b>	<pre> L R R C L I S V D M   R L I E K S F H E I   K R A M Q T K D T F   K N V T I L S L E N L R S I K P G D V C   C M T N N L L T F Y   R D R V F Q D H Q E   R S L E V L R R I S S I A N S F L C V Q   K S L E R C Q V H R   Q C N C S Q E A T N   A T R I I H D N Y N Q L E V S S A A L K   S L G E L N I L L A   W I D R N H L E T P   A A           </pre>
<b>Biological Activity</b>	The ED <sub>50</sub> is <50 ng/mL as measured by MCF-7 cells, corresponding to a specific activity of >2.0 × 10 <sup>4</sup> units/mg.
<b>Appearance</b>	Lyophilized powder.
<b>Formulation</b>	Lyophilized after extensive dialysis against 50 mM acetic acid or PBS, pH 7.4, 8% trehalose.
<b>Endotoxin Level</b>	<0.2 EU/μg, determined by LAL method.
<b>Reconstitution</b>	Reconstitute the lyophilized powder up to 50 μg/mL in 50 mM acetic acid. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).
<b>Storage &amp; Stability</b>	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.
<b>Shipping</b>	Room temperature in continental US; may vary elsewhere.

### DESCRIPTION

<b>Background</b>	<p>IL-19 shares 21% amino acid identity with IL-10. The exon/intron structure of IL-19 is similar to that of the human IL-10 gene, comprising five exons and four introns within the coding region of the IL-19 cDNA. IL-19 does not bind or signal through the canonical IL-10 receptor complex<sup>[1]</sup>. IL-19 functions through a receptor complex composed of IL-20Ra and IL20Rb that is also utilized by IL-20 and IL-24. IL19 has been shown to enhance the production of Th2 cytokines in Tcells and to be elevated in asthma patients. Furthermore, it induces IL-6, IL-8 and IL-10 expression in monocytes. Additionally, it has been implicated in a range of diseases and disorders, including aging, Type-I diabetes, endotoxic shock, periodontal disease, vascular</p>
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disease and rheumatoid arthritis<sup>[2]</sup>.

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## REFERENCES

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[1]. IL-19 shares 21% amino acid identity with IL-10. The exon/intron structure of IL-19 is similar to that of the human IL-10 gene, comprising five exons and four introns within the coding region of the IL-19 cDNA. IL-19 does not bind or signal through the canonical IL-10 receptor complex<sup>[1]</sup>. IL-19 functions through a receptor complex composed of IL-20Ra and IL20Rb that is also utilized by IL-20 and IL-24. IL19 has been shown to enhance the production of Th2 cytokines in Tcells and to be elevated in asthma patients. Furthermore, it induces IL-6, IL-8 and IL-10 expression in monocytes. Additionally, it has been implicated in a range of diseases and disorders, including aging, Type-I diabetes, endotoxic shock, periodontal disease, vascular disease and rheumatoid arthritis<sup>[2]</sup>.

[2]. Gallagher G, et al. Interleukin-19: multiple roles in immune regulation and disease. Cytokine Growth Factor Rev. 2010 Oct;21(5):345-52.

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

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