

IL-19 Protein, Human

Cat. No.:	HY-P7212
Synonyms:	rHuIL-19; Melanoma differentiation association like protein; ZMDA1
Species:	Human
Source:	E. coli
Accession:	Q9UHD0 (L25-A177)
Gene ID:	29949
Molecular Weight:	Approximately 17.9 kDa

PROPERTIES

AA Sequence	<pre> L R R C L I S T D M H H I E E S F Q E I K R A I Q A K D T F P N V T I L S T L E T L Q I I K P L D V C C V T K N L L A F Y V D R V F K D H Q E P N P K I L R K I S S I A N S F L Y M Q K T L R Q C Q E Q R Q C H C R Q E A T N A T R V I H D N Y D Q L E V H A A A I K S L G E L D V F L A W I N K N H E V M S S A </pre>
Biological Activity	The ED ₅₀ is <1.5 ng/mL as measured by murine BaF3 pro-B cells, corresponding to a specific activity of >6.7 × 10 ⁵ units/mg.
Appearance	Lyophilized powder.
Formulation	Lyophilized after extensive dialysis against PBS, pH 7.4.
Endotoxin Level	<1 EU/μg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 μg/mL in sterile distilled water or aqueous buffer containing 0.1% BSA.
Storage & Stability	Stored at -20°C. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer. 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>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^[1]. 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-1 diabetes, endotoxic shock, periodontal disease, vascular</p>
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disease and rheumatoid arthritis^[2].

REFERENCES

- [1]. Gallagher G, et al. Cloning, expression and initial characterization of interleukin-19 (IL-19), a novel homologue of human interleukin-10 (IL-10). *Genes Immun.* 2000 Oct;1(7):442-50.
- [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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