

## Overview

<b>Synonyms</b>	Melanoma differentiation association like protein, MDA1, NG.1, ZMDA1, IL-10C, IL-19
<b>Description</b>	<b>Interleukin-19 (IL-19)</b> is a cytokine belonging to the interleukin family. Structurally, IL-19 is grouped into the IL-10 sub-family, which also includes IL-20, IL-22, IL-24, and IL-26. In contrast to IL-10, which exists as a homodimer, IL-19 is stable and active as a monomer in vivo. IL-19 functions through the receptor complex composed of IL-20 Receptor $\pm$ and IL-20 Receptor $^2$ , which is also utilized by IL-20 and IL-24. IL-19 is produced by active monocytes and stimulated synergistically by IL-17 and IL-13. The functions of IL-19 are to promote the development and function of Th2 cells and to enhance the production of Th2 cytokines. IL-19 is implicated in aging, vascular disease, Type I diabetes, and rheumatoid arthritis. Recombinant <b>mouse Interleukin-19 (rmIL-19)</b> produced in <i>E. coli</i> is a single non-glycosylated polypeptide chain containing of 153 amino acids. A fully biologically active molecule, rmIL-19 has a molecular mass of 17.7 kDa analyzed by non-reducing SDS-PAGE and is obtained by proprietary chromatographic techniques.
<b>Accession No</b>	Q8CJ70
<b>Species</b>	Mouse
<b>Source</b>	<i>E. coli</i>
<b>Biological Activity</b>	ED <sub>50</sub> < 50 ng/mL, measured by a cell proliferation assay using MCF-7 cells, corresponding to a specific activity of > 2 × 10 <sup>4</sup> units/mg.
<b>Sequence</b>	MLRRCLISVD MRLIEKSFHE IKRAMQTKDT FKNVTILSLE NLRSIKPGDV CCMTNLLTF YRDRVFQDHQ ERSLEVLRRRI SSIANFSLCV QKSLERCQVH RQCNCSEAT NATRIIHDNY NQLEVSSAAL KSLGELNILL AWIDRNHLET PAA

## Properties

<b>Measured Molecular Weight</b>	17.7 kDa, observed by non-reducing SDS-PAGE.
<b>Purity</b>	> 95% by SDS-PAGE analysis.
<b>Formulation</b>	Lyophilized after extensive dialysis against 50mM acetic acid.
<b>Reconstitution</b>	Reconstituted in 50 mM acetic acid at 50 µg/mL.
<b>Endotoxin Level</b>	< 0.2 EU/µg, determined by LAL method.
<b>Storage</b>	Lyophilized recombinant <b>mouse Interleukin-19 (rmIL-19)</b> remains stable up to 6 months at lower than -70°C from date of receipt. Upon reconstitution, rmIL-19 remains stable up to 2 weeks at 4°C or up to 3 months at -20°C.
<b>Note</b>	For research use only

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