

## Recombinant Mouse Interleukin-19 (rm IL-19)

**Synonyms:** Melanoma differentiation association like protein, MDA1, NG.1, ZMDA1, IL-10C.

**Introduction:** IL19 is a cytokine that belongs to the IL10 cytokine subfamily. IL-19 is found to be preferentially expressed in monocytes. It can bind the IL20 receptor complex and lead to the activation of the signal transducer and activator of transcription 3 (STAT3). A similar cytokine in mouse is reported to up-regulate the expression of IL6 and TNF-alpha and induce apoptosis, which suggests a role of this cytokine in inflammatory responses. Alternatively spliced transcript variants encoding the distinct isoforms have been described.

**Description:** rm Interleukin-19 produced in E.Coli is a single, non-glycosylated polypeptide chain containing 152 amino acids and having a molecular mass of 17722 Dalton. The IL-19 is purified by proprietary chromatographic techniques.

**Source:** *Escherichia Coli*.

**Physical Appearance:** Sterile filtered white lyophilized (freeze-dried) powder.

**Formulation:** lyophilized from a 0.22 µm filtered solution in 25 mM Sodiumphosphate, 200 mM NaCl, pH 6.5. The aliquots of 1µg and 2µg contain Trehalose 5% (w/vol) for better recovery.

**Solubility:** It is recommended to reconstitute the lyophilized rm IL-19 in sterile H<sub>2</sub>O not less than 100 µg/ml, which can then be further diluted to other aqueous solutions.

**Stability:** Lyophilized rm IL-19, although stable at room temperature for 3 weeks, should be stored desiccated below -18° C. Upon reconstitution rm IL-19 should be stored at 4° C between 2-7 days and for future use below -18° C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.

**Purity:** Greater than 95.0% as determined by SDS-PAGE.

**Endotoxicity:** The endotoxin level is less than 1 EU / µg determined by LAL method.

**Amino acid sequence:** MLRRCLISVD MRLIEKSFHE IKRAMQTKDT FKNVTILSLE NLRSIKPGDV  
CCMTNNLLTF YRDRVFDHQ ERSLEVLRR SSANSFLCV QKSLERCQVH RQCNCSEAT  
NATRIHDNY NQLEVSSAAL KSLGELNILL AWIDRNHLET PAA

**Biological Activity:** The biological activity was tested by mIL-19 induced reporter gene expression in hIL-20R transfected Ba/F3 cells.

This material is offered for **research use only**. Not for use in human. For in vitro use only. ImmunoTools will not be held responsible for patent infringement or other violations that may occur with the use of our products.

<i>small</i>	2 µg	Cat.N°	12340192
<i>medium</i>	10 µg	Cat.N°	12340193
<i>large</i>	50 µg	Cat.N°	12340195
<i>x-large</i>	250 µg	Cat.N°	12340197
<i>xx-large</i>	1000 µg	Cat.N°	12340198

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