

Recombinant Human Interleukin-19 (rh IL-19)

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

Introduction: IL-19 is a cytokine that belongs to the IL-10 cytokine subfamily. IL-19 is found to be preferentially expressed in monocytes. It can bind the IL-20 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 regulate the expression of IL-6 and TNF-alpha up and to induce apoptosis which suggests a role of IL-19 in inflammatory responses. Alternatively spliced transcript variants encoding the distinct isoforms have been described.

Description: Recombinant human IL-19 produced in *E.Coli* is a single, non-glycosylated polypeptide chain containing 155 amino acids and having a molecular mass of 17.9 kDa. Rh IL-19 is purified by proprietary chromatographic techniques.

Source: *Escherichia Coli*.

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

Formulation: Lyophilized from 0.22 µm filtered solution in 25 mM sodium phosphate, 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 rh IL-19 in sterile H₂O not less than 100 µg/ml, which can then be further diluted to other aqueous solutions.

Stability: Lyophilized rh IL-19 although stable at room temperature for 3 weeks, should be stored desiccated below -18° C . Upon reconstitution rh 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 % as determined by RP-HPLC and by SDS-PAGE.

Endotoxicty: The endotoxin level is less than 1 EU / µg determined by LAL method

Amino acid sequence: MLRRCLISTD MHHIEESFQE IKRAIQAKDT FPNVTILSTL ETLQIIKPLD
VCCVTKNLLA FYVDRVFKDH QEPNPKILRK ISSIANSFLY MQKTLRQCQE QRQCHCRQEA TNATRVIHND
YDQLEVHAAA IKSLGELDVF LAWINKNHEV MSSA

Biological Activity: The activity is determined by its ability to activate STAT following receptor-ligand interaction.

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°	11340192
<i>medium</i>	10 µg	Cat.N°	11340193
<i>large</i>	50 µg	Cat.N°	11340195
<i>medium</i>	250 µg	Cat.N°	11340197
<i>large</i>	1000 µg	Cat.N°	11340198

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