



## Product Datasheet

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| <b>Product Name</b> | Interleukin-19 Mouse Recombinant   |
| <b>Cata No</b>      | CB500313   |
| <b>Source</b>       | <i>Escherichia Coli</i> .  |
| <b>Synonyms</b>     | Melanoma differentiation association like protein, MDA1, NG.1, ZMDA1, IL-10C, IL-19. |

### Description

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.:

Interleukin-19 Mouse Recombinant 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.

### Physical Appearance

Sterile Filtered White lyophilized (freeze-dried) powder.

### Biological Activity

The biological activity was determined by measuring the dose-dependent activation of STAT3 in human epidermal keratinocytes (HEK2a cells). Significant

STAT3 activation is observed with >100ng/mL of IL-19 recombinant mouse.

### Purity

Greater than 95.0% as determined by:

- (a) Analysis by RP-HPLC.
- (b) Analysis by SDS-PAGE.

### Formulation

Lyophilized from a concentrated (1 mg/ml) solution in water containing no additives.

### Stability

Lyophilized Interleukin-19 although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution IL19 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.**

### Sequence

The sequence of the first five N-terminal amino acids was determined and was found to be Met-Leu-Arg-Arg-Cys.

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