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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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Interleukin-19, human recombinant (rHuIL-19)

Catalog No: 87355
Lot No: XXXXX
Source: *E. coli*
Synonyms: Melanoma differentiation association like protein, MDA1, NG.1, ZMDA1, IL-10C, IL-19

Background

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

Interleukin-19 human recombinant produced in *E. coli* is a single, non-glycosylated polypeptide chain containing 155 amino acids and having a molecular mass of 17913 Dalton. IL-19 is purified by proprietary chromatographic techniques.

Physical Appearance

Sterile filtered white lyophilized (freeze-dried) powder.

Formulation

Lyophilized from a concentrated (1 mg/ml) solution in water containing 10 mM sodium citrate pH 5.

Solubility

It is recommended to reconstitute the lyophilized Interleukin -19 in sterile 18 MΩ-cm H₂O at a concentration of 0.5 mg/ml or less.

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.

Purity

Greater than 99.0% as determined by (a) Analysis by RP-HPLC, (b) Analysis by SDS-PAGE.

Amino Acid Sequence

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

Activity

The activity is determined by it's ability to activate STAT following receptor-ligand interaction.

Usage

This product is offered by Biomol for research purposes only. Not for diagnostic purposes or human use. It may not be resold or used to manufacture commercial products without written approval of Biomol GmbH.