

Rev03
Update: Dec,14,2021

DATASHEET

IL-19, Human

Cat. No.: Z02932

Product Introduction

Species	Human
Protein Construction	IL-19 [Leu25-Ala177 (Phe175Ser)] Accession # Q9UHD0
Purity	> 95% as analyzed by SDS-PAGE > 95% as analyzed by HPLC
Endotoxin Level	< 1 EU/ μ g of protein by LAL method
Biological Activity	Fully biologically active when compared to standard. The ED ₅₀ as determined by a cell proliferation assay using human IL-20R α and human IL-20R β co-transfected murine BaF3 pro-B cells is less than 1.5 ng/ml, corresponding to a specific activity of $> 6.7 \times 10^5$ IU/mg.
Expression System	E. coli
Theoretical Molecular Weight	17.9 kDa
Formulation	Lyophilized from a 0.2 μ m filtered solution in PBS, pH 7.4.
Reconstitution	It is recommended that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute the lyophilized powder in 100 mM HAC up to 0.1-1.0 mg/ml.
Storage & Stability	Upon receiving, this product remains stable for up to 6 months at -70°C or -20°C. Upon reconstitution, the product should be stable for up to 1 week at 4°C or up to 3 months at -20°C. Avoid repeated freeze-thaw cycles.

Background

Target Background : Interleukin-19 (IL-19) 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 α and IL-20 Receptor β , 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.

Synonyms : Melanoma differentiation association like protein; MDA1; NG.1; ZMDA1; IL-10C; IL19

For laboratory research use only. Direct human use, including taking orally and injection and clinical use are forbidden.