

Rev04
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DATASHEET

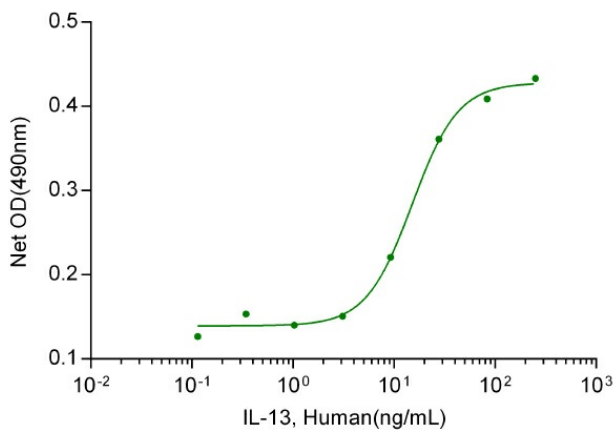
IL-13, Human(CHO-expressed)

Cat. No.: Z03020

Product Introduction

Species	Human
Protein Construction	IL-13 (Ser33-Asn146) Accession # P35225
Purity	> 95% as analyzed by SDS-PAGE
Endotoxin Level	< 0.2 EU/μg of protein by gel clotting method
Biological Activity	ED ₅₀ < 15.0 ng/ml, measured in a cell proliferation assay using TF-1 cells, corresponding to a specific activity of > 6.7 × 10 ⁵ units/mg.
Expression System	CHO
Apparent Molecular Weight	25~45 kDa, on SDS-PAGE under non-reducing conditions.
Formulation	Lyophilized after extensive dialysis against PBS.
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 ddH ₂ O or PBS up to 100 μg/ml.
Storage & Stability	Upon receiving, this product remains stable for up to 6 months at lower than -70°C. Upon reconstitution, the product should be stable for up to 1 week at 4°C or up to 3 months at -20°C. For long term storage it is recommended that a carrier protein (example 0.1% BSA) be added. Avoid repeated freeze-thaw cycles.

Examples



ED₅₀ < 15 ng/ml, measured in a cell proliferation assay using TF-1 cells, corresponding to a specific activity of > 6.7 × 10⁵ units/mg.

Background

Target Background : Interleukin 13 (IL-13) is an immunoregulatory cytokine produced primarily by activated Th2 cells, and also by mast cells and NK cells. Targeted deletion of IL-13 in mice resulted in impaired Th2 cell development and indicated an important role for IL-13 in the expulsion of gastrointestinal parasites. IL-13 exerts anti-inflammatory effects on monocytes and macrophages and it inhibits the expression of inflammatory cytokines such as IL-1beta, TNF-alpha, IL-6 and IL-8. IL-13 has also been shown to enhance B cell proliferation and to induce isotype switching resulting in increased production of IgE. Blocking of IL-13 activity inhibits the pathophysiology of asthma. Human and mouse IL-13 is cross-species reactive.

Synonyms : IL13; NC300 (Human); P600 (Murine)

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