

Rev03
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DATASHEET

IL-5, Human

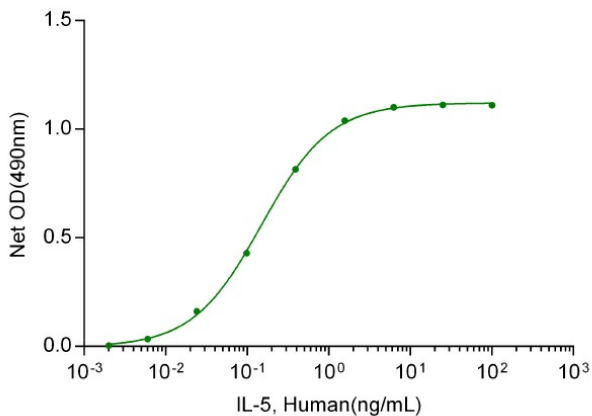
Cat. No.: Z03007

Product Introduction

Species	Human
Protein Construction	Expressed with an N-terminal Met. IL-5 (Ile20-Ser134) Accession # P05113
Purity	> 95% as analyzed by SDS-PAGE
Endotoxin Level	< 0.2 EU/ μ g of protein by gel clotting method
Biological Activity	ED ₅₀ < 1.0 ng/ml, measured by a cell proliferation assay using TF-1 Cells, corresponding to a specific activity of > 1.0 \times 10 ⁶ units/mg.
Expression System	E. coli
Apparent Molecular Weight	~26.5 kDa, on SDS-PAGE under non-reducing conditions.
Formulation	Lyophilized after extensive dialysis against 25 mM Tris, pH 8.0.
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 up to 100 μ g/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 < 1.0 ng/ml, measured by a cell proliferation assay using TF-1 Cells, corresponding to a specific activity of > 1.0 × 10⁶ units/mg.



Background

Target Background : Interleukin-5 (IL-5), produced by mast cells, T cells and eosinophils, is responsible for the activities attributed to eosinophil differentiating factor, B cell growth factor II and T cell-replacing factor (TRF). It can increase production and mobilization of eosinophils and CD34+ progenitors from the bone marrow. IL-5 plays an important role in inducing cell-mediated immunity against parasitic infections and certain tumors. IL-5 also promotes differentiation of basophils and primes them for histamine and leukotriene release.

Synonyms : IL5; EDF; BCDFII; TRF

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