

Rev04
Update: Jan,19,2024

DATASHEET

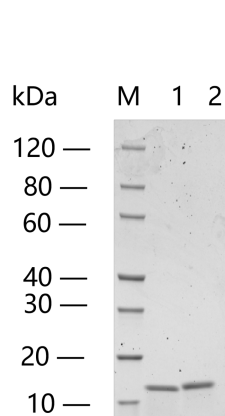
IL-2, Human

Cat. No.: Z00368

Product Introduction

Species	Human
Protein Construction	IL-2 (Ala21-Thr153) Accession # P60568
Purity	> 95% as analyzed by SDS-PAGE > 95% as analyzed by HPLC
Endotoxin Level	< 1 EU/μg of protein by LAL method
Biological Activity	The ED ₅₀ as determined by the dose-dependant stimulation of the proliferation of CTLL-2 was found to be < 0.1 ng/ml, corresponding to a specific activity of > 1.0 × 10 ⁷ IU/mg.
Expression System	E. coli
Theoretical Molecular Weight	15.3 kDa
N-terminal Sequence Analysis	The sequence of the first five N-terminal amino acids was determined and found to be Met-Ala-Pro-Thr-Ser-Ser.
Apparent Molecular Weight	15,300 Da
Formulation	Lyophilized from a 0.2 μm filtered solution in 10 mM sodium citrate, pH 4.0.
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 sterile 18 MΩ-cm H ₂ O up to 100 μg/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.

Examples



Lane 1: 2 µg of IL-2, Human , non-reducing (NR)

Lane 2: 2 µg of IL-2, Human , reducing (R))

> 95% as analyzed by SDS-PAGE

Background

Target Background : Interleukin-2 (IL-2) is a Oglycosylated, four α -helix bundle cytokine that has potent stimulatory activity for antigen-activated T cells. It is expressed by CD4⁺ and CD8⁺ T cells, $\gamma\delta$ T cells, B cells, dendritic cells, and eosinophils. IL-2/IL-2R signaling is required for T-cell proliferation and other fundamental functions which are essential for the immune response. IL-2 stimulates growth and differentiation of B-cells, NK cells, lymphokine activated killer cells, monocytes, macrophages and oligodendrocytes.

Synonyms : IL2; IL-2; TCGF; lymphokine; interleukin 2

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

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