

Analytical Data Sheet

Lot number	9044437 not for drug use
Item number	4030758.0010
Catalog number	H-7365
Product	rec IL-2 (human)

Description: IL-2 is a powerful immunoregulatory lymphokine produced by T-cells in response to antigenic or mitogenic stimulation. IL-2/IL-2R signaling is required for T-cell proliferation and other fundamental functions that 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. Recombinant Human IL-2 is a 15.5 kDa protein, containing 134 amino acid residues including one intrachain disulfide bond.

Sequence: MAPTSSSTKK TQLQLEHLLL DLQMILNGIN NYKNPKLTRM LTFKFYMPKK ATELKHLQCL EEELKPLEEV
LNLAQSKNFH LRPRDLISNI NVIVLELKGS ETTFMCEYAD ETATIVEFLN RWITFAQSII STLT

Source: E.coli

Purity: Greater than 98% by SDS-PAGE gel and HPLC analyses.

Authenticity: Verified by N-terminal and Mass Spectrometry analyses (when applicable).

Endotoxin level: Endotoxin level is <0.1 ng per µg (1EU/ µg).

Protein Content: Verified by UV Spectroscopy and/or SDS-PAGE gel.

Biological Activity: The ED₅₀ was determined by the dose-dependent stimulation of the proliferation of murine CTLL-2 cells at ≤; 0.1 ng/ml, corresponding to a specific activity of ≥1 x10⁷ units /mg.

Formulation: Sterile filtered through a 0.2 micron filter. Lyophilized with no additives.

Reconstitution: Centrifuge vial prior to opening. Reconstitute in 100 mM Acetic Acid to 0.1-1.0 mg/ml. Do not vortex. Store at 2°C to 8°C for 1 week, or prepare for extended storage.

Storage/Stability: The lyophilized protein can be stored at -20°C to -80°C until December 2019. Stored at 4°C for 12 months. Stored at room temperature for 1 month. Reconstituted form at 2°C to 8°C for 1 week.

Extended storage: We recommend to further dilute in a buffer containing a carrier protein (example 0.1% BSA) and store in working aliquots at -20°C to -80°C. Avoid repeated freeze-thaw cycles.

Usage: For Research Use Only. Not for human use.

Latest update: October 4, 2017

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