

# Recombinant Human IL-2

Catalog # FL143

## Product Specifications

Appearance	Sterile filtered White lyophilized (freeze-dried) powder.
Purity	> 98% by SDS-PAGE or HPLC.
Endotoxin	< 0.01 EU/ $\mu$ g of rHuIL-2 protein as determined by LAL method.
Expression System	Expressed in E. coli.
Species	Human
Tag	Tag free.
Activity	The ED50 as determined by the dose-dependent stimulation of murine CTLL-2 cells is $\leq 0.1$ ng/ml, corresponding to a specific activity of $\geq 1 \times 10^7$ units/mg.
Formulation	Lyophilized from a 0.2 $\mu$ m filtered concentrated solution in 20 mM PB, pH 3.5.
Reconstitution	Before use this product, please read the direction below carefully. This vial must be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute in a sterile distilled water or aqueous buffer containing 0.1% BSA to a concentration of 0.1-1.0 mg/ml. Stock solutions should be apportioned into working aliquots and stored at $\leq -20^\circ\text{C}$ . Further dilutions should be made in appropriate buffered solutions.
Accession #	P60568 Ala21-Thr153 with an N-terminal Met
Amino acid sequence	MAPTSSSTKKTQLQLEHLLLDLQMLNGINNYKNPKLTRMLTFKFKYMPKKATELKHLLQCLEEEELKPLEEVLNLAQSKNFHLR PRDLISNINVIVLELKGSETTFMCEYADETATIVEFLNRWITFCQSIISTLT
Molecular weight	Approximately 15.5 kDa, a single non-glycosylated polypeptide chain containing 134 amino acids.
Stability & Storage	Shipped on wet ice. For long term storage, the product should be stored $\leq -20^\circ\text{C}$ . Please avoid repeated freeze-thaw cycles after reconstitution. 36 months from date of receipt, $-20$ to $-70^\circ\text{C}$ as supplied. 1 month, $2$ to $8^\circ\text{C}$ under sterile conditions after reconstitution. 3 months, $-20$ to $-70^\circ\text{C}$ under sterile conditions after reconstitution.
Precautions	Recombinant Human IL-2 is for research use only and not for use in diagnostic or therapeutic procedures.

## Background

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 including one intrachain disulfide bond.

