

IL-2 Protein, Human, Recombinant (E. coli)

General Information

Synonyms:	Aldesleukin;IL-2;IL2;T-Cell Growth Factor;TCGF;Interleukin-2
Protein Construction:	Ala21-Thr153
Species:	Human
Expression Host:	E. coli
Accession:	P60568
AA Sequence:	Ala21-Thr153

QC Testing

Biological Activity:	1. Loaded Human IL-2RA-Fc on Protein A Biosensor, can bind Human IL-2 with an affinity constant of 17.0 nM as determined in BLI assay. (Regularly tested) 2. Measured in a cell proliferation assay using CTLL-2 mouse cytotoxic T cells. The specific activity of Recombinant Human IL-2 is $\geq 1 \times 10^7$ IU/mg. (QC verified)
Purity:	Greater than 95% as determined by reducing SDS-PAGE. (QC verified)
Endotoxin:	< 0.001 ng/ μ g (0.01 EU/ μ g) as determined by LAL test.
Formulation:	Lyophilized from a solution filtered through a 0.22 μ m filter, containing 10 mM sodium citrate, pH 4.0.

Preparation and Storage

Reconstitution:

Reconstitute the lyophilized protein in distilled water. The product concentration should not be less than 100 μ g/ml. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

Stability & Storage:

It is recommended to store recombinant proteins at -20°C to -80°C for future use. Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein Background

Interleukin-2(IL-2) is an interleukin, a type of cytokine signaling molecule in the immune system, belongs to the IL-2 family. It 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

A DRUG SCREENING EXPERT

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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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