



Recombinant Human IL-2
(Interleukin-2)

Catalog Number: 100-12
Accession Number: P60568

Specifications and Uses:

Alternate Names: T cell growth factor, TCGF, Aldesleukin

Description:

Interleukin-2 (IL-2) is an immuno-modulatory cytokine produced by stimulated T cells. IL-2 signals through the IL-2R receptor to induce proliferation of activated T cells. IL-2 also stimulates proliferation and differentiation of B cells, natural killer cells, monocytes and macrophages. Recombinant human IL-2 is a non-glycosylated protein, containing 134 amino acids, with a molecular weight of 15.5 kDa. Recombinant human IL-2 has a Ser substitute for Cysteine at position 126.

Source: *E.coli*

Physical Appearance: Sterile filtered white lyophilized (freeze-dried) powder.

Formulation and Stability:

Recombinant human IL-2 is lyophilized at 1 mg/mL in 10 mM sodium citrate, pH 3.0. Lyophilized product is very stable at -20°C. Reconstituted material should be aliquoted and frozen at -20°C. It is recommended that a carrier protein (0.1% HSA or BSA) is added for long term storage.

Reconstitution:

Centrifuge vial before opening. When reconstituting the product, gently pipet and wash down the sides of the vial to ensure full recovery of the protein into solution. It is recommended to reconstitute the lyophilized product with **sterile 10 mM HCl**, at a concentration of 0.1 mg/mL, which can be further diluted into other aqueous solutions.

Protein Content and Purity (typically ≥ 90%) determined by:

Reducing and Non-reducing SDS-PAGE, UV spectroscopy at 280 nm

Endotoxin Level:

Measured by kinetic LAL analysis and is typically ≤ 1 EU/μg protein.

Biological Activity:

The activity is measured by the dose-dependent proliferation of CTLL-2 cells and is typically less than 1 ng/mL.

AA Sequence:

MAPTSSSTKK TQLQLEHLLL DLQMILNGIN NYKNPKLTRM LTFKFYMPKK ATELKHLQCL EEELKPLEEV
LNLAQSKNFH LRPRDLISNI NVIVLELKGS ETTFMCEYAD ETATIVEFLN RWITFSQSII STLT

THIS PRODUCT IS FOR RESEARCH USE ONLY AND IS NOT FOR USE IN HUMANS!

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