

# Recombinant Human Interleukin-2/IL-2 Protein (His Tag)



Catalog Number:PKSH032629

**Note:** Centrifuge before opening to ensure complete recovery of vial contents.

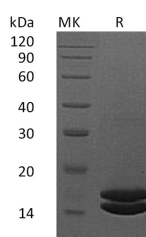
## Description

|                                    |  |
|------------------------------------|--|
| <b>Synonyms</b>                    | Interleukin-2;IL-2;T-Cell Growth Factor;TCGF;Aldesleukin;IL4   |
| <b>Species</b>                     | Human  |
| <b>Expression Host</b>             | HEK293 Cells   |
| <b>Sequence</b>                    | Ala21-Thr153   |
| <b>Accession</b>                   | P60568   |
| <b>Calculated Molecular Weight</b> | 16.4 kDa   |
| <b>Observed molecular weight</b>   | 14-18 kDa  |
| <b>Tag</b>                         | C-His  |
| <b>Bioactivity</b>                 | 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. |

## Properties

|                       |   |
|-----------------------|---|
| <b>Purity</b>         | > 95 % as determined by reducing SDS-PAGE.  |
| <b>Endotoxin</b>      | < 0.01 EU per $\mu$ g of the protein as determined by the LAL method.   |
| <b>Storage</b>        | Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.                             |
| <b>Shipping</b>       | This product is provided as lyophilized powder which is shipped with ice packs.   |
| <b>Formulation</b>    | Lyophilized from a 0.2 $\mu$ m filtered solution of 10mM Sodium Citrate, 4% Mannitol, pH4.0<br>Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization.<br>Please refer to the specific buffer information in the |
| <b>Reconstitution</b> | Please refer to the printed manual for detailed information.  |

## Data



> 95 % as determined by reducing SDS-PAGE.

## 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 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.

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