

**IL-2 (C-6His), Rat, Recombinant**

Cat. No. : PCK026

**General Information**

|                        |                                                              |
|------------------------|--------------------------------------------------------------|
| <b>Synonyms</b>        | Interleukin-2;IL-2;T-cell Growth Factor;TCGF;Aldesleukin;IL2 |
| <b>Species</b>         | Rat                                                          |
| <b>Expression host</b> | Human Cells                                                  |
| <b>Sequence</b>        | Ala21-Gln155                                                 |
| <b>Accession</b>       | P17108                                                       |
| <b>Mol mass</b>        | 16.3 kDa                                                     |
| <b>Expiration date</b> | 6 months                                                     |

**Product feature**

|                          |                                                                                                                                                                            |
|--------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Purity</b>            | > 95% as determined by reducing SDS-PAGE.                                                                                                                                  |
| <b>Endotoxin (EU/μg)</b> | < 0.1                                                                                                                                                                      |
| <b>Storage</b>           | Store at ≤-5~-20°C, stable for 6 months after receipt. Store at ≤-5~-20°C, stable for 3 months under sterile conditions after opening. Please minimize freeze-thaw cycles. |
| <b>Shipping</b>          | Ice bag                                                                                                                                                                    |
| <b>Formulation</b>       | Supplied as a 0.2 μm filtered solution of 5 mM NaH <sub>2</sub> PO <sub>4</sub> , 5 mM Citric acid, 150 mM NaCl, pH 4.0.                                                   |

**Background**

Interleukin-2 (IL-2) is a O-glycosylated four α-helix bundle Cytokine that has potent stimulatory activity for antigen-activated T cells. It is expressed by CD4<sup>+</sup> and CD8<sup>+</sup> T cells, γδ T cells, B cells, dendritic cells, and eosinophils. Mature rat IL-2 shares 66% and 73% amino acid sequence identity with human and mouse IL-2, respectively. The Receptor for IL-2 consists of three subunits that are present on the cell surface in varying preformed complexes. 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.

**SDS-PAGE**