



## Recombinant Rat IL-2 (C-6His)

<b>Catalog #</b>	EPT090
<b>Expression Host</b>	Human Cells
<b>DESCRIPTION</b>	Recombinant Rat Interleukin-2 is produced by our Mammalian expression system and the target gene encoding Ala21-Gln155 is expressed with a 6His tag at the C-terminus.
<b>Accession</b>	P17108
<b>Synonyms</b>	Interleukin-2; IL-2; T-cell growth factor; TCGF; Aldesleukin; IL2
<b>Mol Mass</b>	16.3 KDa
<b>AP Mol Mass</b>	14-16 KDa, reducing conditions
<b>Purity</b>	Greater than 95% as determined by reducing SDS-PAGE.
<b>Endotoxin</b>	Less than 0.1 ng/μg (1 EU/μg) as determined by LAL test.
<b>FORMULATION</b>	Supplied as a 0.2 μ m filtered solution of 5mM NaH <sub>2</sub> PO <sub>4</sub> , 5mM Citric acid, 150mM NaCl, pH 4.0.





## RECONSTITUTION

### SHIPPING

The product is shipped on dry ice/polar packs.

Upon receipt, store it immediately at the temperature listed below.

### STORAGE

Store at  $\leq -70^{\circ}\text{C}$ , stable for 6 months after receipt.

Store at  $\leq -70^{\circ}\text{C}$ , stable for 3 months under sterile conditions after opening.

Please minimize freeze-thaw cycles.

### BACKGROUND

Interleukin-2(IL-2)is a O-glycosylated four  $\alpha$  -helix bundle cytokine that has potent stimulatory activity for antigenactivated T cells. It is expressed by CD4+ and CD8+ T cells,  $\gamma\delta$  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

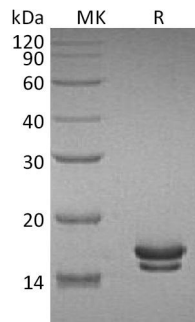




**ELK Biotechnology**

differentiation of B-cells, NK cells,  
lymphokine-activated killer cells, monocytes,  
macrophages and oligodendrocytes.

## SDS-PAGE



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