

## Product datasheet for **TP727730**

### IL2 Rat Recombinant Protein

#### Product data:

**Product Type:** Recombinant Proteins

**Description:** Recombinant Rat Interleukin-2/IL-2 (C-6His)

**Species:** Rat

**Expression cDNA Clone or AA Sequence:** Ala21-Gln155

**Tag:** C-His

**Buffer:** Supplied as a 0.2 um filtered solution of 5mM NaH<sub>2</sub>PO<sub>4</sub>, 5mM Citric acid, 150mM NaCl, pH4.0.

**Note:** 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.

**Stability:** 12 months from date of despatch

**Locus ID:** 116562

**UniProt ID:** [P17108](#)

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



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