



Recombinant Protein Technical Manual

Recombinant Rat Interleukin-2/IL-2 Protein (His Tag)

RPES4317

Product Data:

Product SKU: RPES4317

Size: 10µg

Species: Rat

Expression host: Human Cells

Uniprot: P17108

Protein Information:

Molecular Mass: 16.3 kDa

AP Molecular Mass: 146 kDa

Tag: C-His

Bio-activity:

Purity: > 95% as determined by reducing SDS-PAGE.

Endotoxin: < 1.0 EU per µg as determined by the LAL method.

Storage: Store at < -20°C, stable for 6 months. Please minimize freeze-thaw cycles.

Shipping: This product is provided as liquid. It is shipped at frozen temperature with blue ice. Upon receipt, store it immediately at < -20°C.

Formulation: Supplied as a 0.2 µm filtered solution of 5mM NaH₂PO₄, 5mM Citric acid, 150mM NaCl, pH4.0.

Reconstitution: Please refer to the printed manual for detailed information.

Application:

Synonyms: Interleukin-2; IL-2; T-cell growth factor; TCGF; Aldesleukin; IL2

Immunogen Information:

Sequence: Ala21-Gln155

Background:

Interleukin-2(IL-2)is a O-glycosylated four α -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.