



Recombinant Protein Technical Manual

**Recombinant Human Interleukin-2/IL-2 Protein
(C145S)(Active)**
RPES1590

Product Data:

Product SKU: RPES1590

Size: 10µg

Species: Human

Expression host: E. coli

Uniprot: P60568

Protein Information:

Molecular Mass: 15.5 kDa

AP Molecular Mass: 14 kDa

Tag:

Bio-activity: Measured in a cell proliferation assay using CTLL-2 mouse cytotoxic T cells. The ED50 for this effect is 90-270 pg/ml

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

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

Storage: Lyophilized protein should be stored at < -20°C, though stable at room temperature for 3 weeks. Reconstituted protein solution can be stored at 4-7°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.

Shipping: This product is provided as lyophilized powder which is shipped with ice packs.

Formulation: Lyophilized from a 0.2 µm filtered solution of 10mM Acetata-Na, 5% Trehaiose, pH 4.5.

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

Application: Cell Culture

Synonyms: Interleukin-2; IL-2; T-Cell Growth Factor; TCGF; Aldesleukin; IL6

Immunogen Information:

Sequence: Pro22-Thr153(Cys145Ser)

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.