

# Recombinant Human Interleukin-2/IL-2 Protein (C145S)

RPES1590

## Description

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This high-purity recombinant protein is supplied as a kit for advanced applications. The kit includes Bradford Reagent to quantify total protein concentration for accurate sample normalization (Optional).

## Protein Information

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**SKU:** RPES1590

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

**Contents:** 50µg, 10µg  
Bradford Reagent: 1 vial (2ml)

**Concentration:** -

**Species:** Human

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

**Synonyms:** IL2, IL-2, TCGF, lymphokine, Aldesleukin, IL-2lymphokine, interleukin-2, Proleukin, interleukin 2, involved in regulation of T-cell clonal expansion, T cell growth factor, T-cell growth factor, IL 2, IL2, Interleukin 2, interleukin2, Involved in regulation of T cell clonal expansion, Lymphokine, POIL2, T Cell Growth Factor, TCGF

**Storage:** Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80 °C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.

Store Bradford Reagent at Room Temperature for 1 year.

**Tag:** None

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

**Expression Host:** E.coli

**Bio-Activity:** Measured in a cell proliferation assay using CTLL- 2 mouse cytotoxic T cells. The ED 50 for this effect is 90-270 pg/ml

**Calculated MW:** 15.5 kDa

**Formulation:** Lyophilized from a 0.2 µm filtered solution of 10mM Acetata-Na, 5% Trehaiose, pH 4.5. Normally 5% - 8% trehalose, mannitol and 0.01% Tween 80 are added as protectants before lyophilization. Please refer to the specific buffer information in the printed manual.

**Observed MW:** 14 kDa

**Reconstitution:** Please refer to the printed manual for detailed information. Measured in a cell proliferation assay using CTLL- 2 mouse cytotoxic T cells. The ED50 for this effect is 90-270 pg/ml. Loaded Human IL-2RA-His(RPES1611) on HIS1K Biosensor, can bind Human IL-2(RPES1590) with an affinity constant of 31 nM as determined in BLI assay.

**Accession:** P60568

**Protein Quantification (Optional):** To quantify total protein levels, use the Bradford Reagent included in this kit. Visit <https://www.assaygenie.com/bradford-protein-assay-protocol/> to view the full protocol

**Source:** E.coli-derived Human Interleukin-2/IL-2 protein Pro22-Thr153(Cys145Ser)

**Sequence:** Pro22-Thr153(Cys145Ser)

**Notes:** Centrifuge before opening to ensure complete recovery of vial contents.

**Form:** Lyophilized powder