

Catalog No.: RP01039 **Recombinant** **1 Publications**

Species	Gene ID	Swiss Prot
Human	3558	P60568

C-His

IL2;IL-2;TCGF;lymphokine

The protein encoded by this gene is a secreted cytokine that is important for the proliferation of T and B lymphocytes. The receptor of this cytokine is a heterotrimeric protein complex whose gamma chain is also shared by interleukin 4 (IL4) and interleukin 7 (IL7). The expression of this gene in mature thymocytes is monoallelic, which represents an unusual regulatory mode for controlling the precise expression of a single gene. The targeted disruption of a similar gene in mice leads to ulcerative colitis-like disease, which suggests an essential role of this gene in the immune response to antigenic stimuli.

Recombinant Human IL-2 Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Ala21-Thr153) of human IL2 (Accession #NP_000577.2) fused with a 6xHis tag at the C-terminus.

1. Measured in a cell proliferation assay using CTLL-2 mouse T cells. The ED₅₀ for this effect is 0.255-1.02 ng/mL, corresponding to a specific activity of 9.80×10⁵~3.92×10⁶units/mg. | 2. Measured in a cell proliferation assay using HT-2 Mouse T cells. The ED₅₀ for this effect is 0.25-0.5 ng/mL, corresponding to a specific activity of 2.0 × 10⁶~4.0 × 10⁶ units/mg. | 3. Measured by its binding ability in a functional ELISA. Immobilized Human IL2RA Protein at 2 µg/mL (100 µL/well) can bind Human IL2 with a linear range of 2.75-64.64 ng/mL.

The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.

Store at -20°C. Store the lyophilized protein at -20°C to -80 °C up to 1 year from the date of receipt.

After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week.

Avoid repeated freeze/thaw cycles.

For your safety and health, please wear a lab coat and disposable gloves for handling.

Source	Purification
HEK293 cells	≥ 95 % as determined by SDS-PAGE.

Calculated MW	Observed MW
16.26 kDa	16 kDa, 18 kDa

< 0.1 EU/μg of the protein by LAL method.

Lyophilized from a 0.22 μm filtered solution of PBS, pH 7.4. Contact us for customized product form or formulation.

Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stabilizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

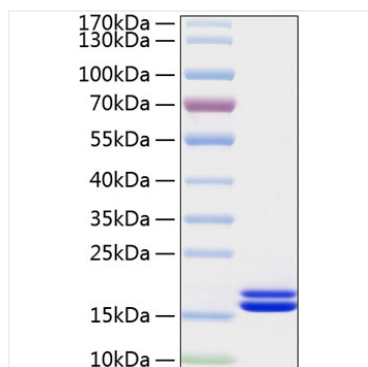
Contact

 | 400-999-6126

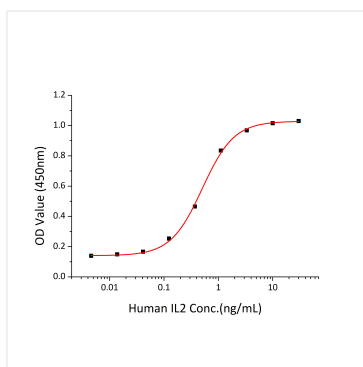
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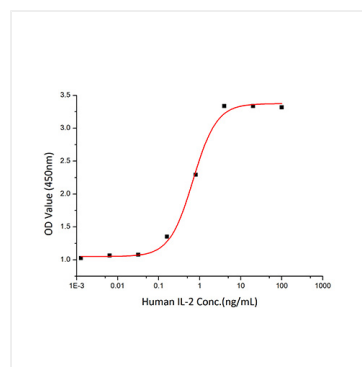
Validation Data



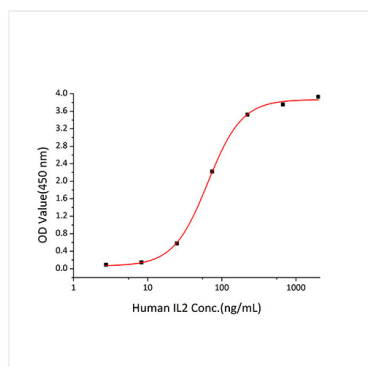
Recombinant Human IL-2 Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.



Measured in a cell proliferation assay using CTLL-2 mouse T cells. The ED_{50} for this effect is 0.255-1.02 ng/mL, corresponding to a specific activity of $9.80 \times 10^5 \sim 3.92 \times 10^6$ units/mg.



Recombinant Human IL2 stimulates cell proliferation of the HT-2 Mouse T cells. The ED_{50} for this effect is 0.25-0.5 ng/mL, corresponding to a specific activity of $2.0 \times 10^6 \sim 4.0 \times 10^6$ units/mg.



Immobilized Human IL2RA Protein at 2 μ g/mL (100 μ L/well) can bind Human IL2 with a linear range of 2.75-64.64 ng/mL.