

Active Recombinant Human IL-2 Protein

Catalog No.: RP01039 **Recombinant**

Sequence Information

Species	Gene ID	Swiss Prot
Human	3558	P60568

Tags

C-His

Synonyms

IL2;IL-2;TCGF;lymphokine

Product Information

Source	Purification
HEK293 cells	> 95% by SDS-PAGE.

Endotoxin

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

Formulation

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

Reconstitution

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 freeze-thaw cycles.

Background

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.

Basic Information

Description

Active 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.

Bio-Activity

1. 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 $2.0 \times 10^6 \sim 4.0 \times 10^6$ units/mg. 2. 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.

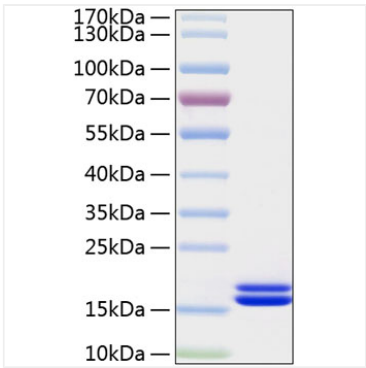
Storage

Store the lyophilized protein at -20°C to -80 °C for long term. 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.

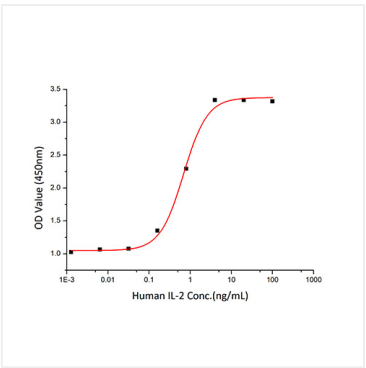
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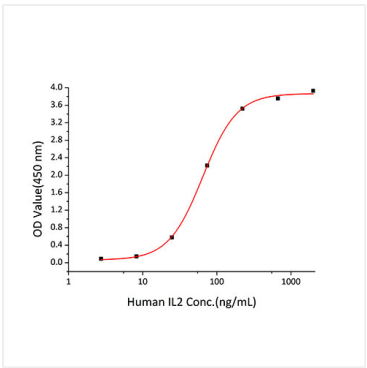
Validation Data



Active Recombinant Human IL-2 Protein was determined by SDS-PAGE with Coomassie Blue, showing bands at 16 kDa and 18 kDa.



Recombinant Human IL2 stimulates cell proliferation of the 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.



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.