

RP01338

Leader in Biomolecular Solutions for Life Science



Recombinant Human IL-2 Protein

Catalog No.: RP01338

Recombinant

Sequence Information

Species	Gene ID	Swiss Prot
Human	3558	P60568

Tags

No tag

Synonyms

IL2;IL-2;TCGF;lymphokine

Product Information

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

Endotoxin

< 1 EU/μg of the protein by LAL method.

Formulation

Lyophilized from a 0.22 μm filtered solution of PBS, pH 7.4.

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

Basic Information

Description

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 additional amino acid free.

Bio-Activity

1.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 2.75-160.22 ng/mL. 2.Measured in a cell proliferation assay using CTLL-2 mouse cytotoxic T cells. Gearing, A.J.H. and C.B. Bird (1987) in Lymphokines and Interferons, A Practical Approach. Clemens, M.J. et al. (eds): IRL Press. 295. The ED₅₀ for this effect is 0.08-0.32 ng/mL, corresponding to a specific activity of 3.13×10^6 - 1.25×10^7 units/mg.

Storage

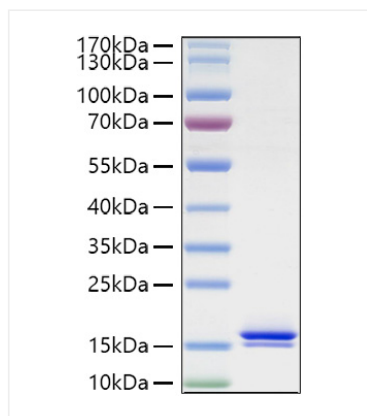
Store the lyophilized protein at -20°C to -80°C for long term. After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week. Avoid repeated freeze/thaw cycles.

Contact

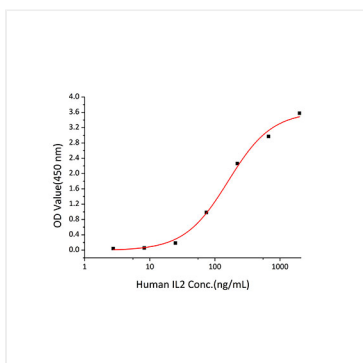


www.abclonal.com

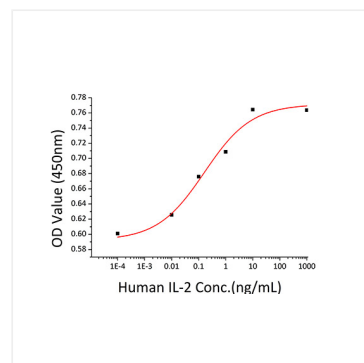
Validation Data



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



Immobilized Human IL2RA Protein at 2 $\mu\text{g/mL}$ (100 $\mu\text{L/well}$) can bind Human IL2 with a linear range of 2.75-160.22 ng/mL.



Recombinant Human IL2 stimulates cell proliferation of the CTLL-2 mouse cytotoxic T cells. The ED_{50} for this effect is 0.08-0.32 ng/mL, corresponding to a specific activity of 3.13×10^5 - 1.25×10^7 units/mg.