

RP01751

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Recombinant Human IL-15 Protein

Catalog No.: RP01751

Recombinant

Sequence Information

Species	Gene ID	Swiss Prot
HEK293 cells	3600	P40933-1

Tags

C-hFc

Synonyms

IL-15 ; IL15

Background

Mouse interleukin-15 receptor subunit alpha, also known as IL15ra, is a high-affinity receptor for interleukin-15. IL15ra associates as a heterotrimer with the IL-2 receptor beta and gamma subunits (Common gamma chain, or gamma c) to initiate signal transduction. It can signal both in cis and trans where IL15R from one subset of cells presents IL15 to neighboring IL2RG-expressing cells. IL15ra is expressed in special cells including a wide variety of T and B cells and non-lymphoid cells. Human IL15ra shares 45% amino acid sequence homology with the mouse form of the receptor. Eight isoforms of IL-15 R alpha mRNA have been identified, resulting from alternative splicing events involving different exons.

Product Information

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

Endotoxin

< 1 EU/μg

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.

Basic Information

Description

Recombinant Human IL-15 Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Asn49-Ser162) of Human IL-15 (Accession #NP_000576.1) fused with and a hFc tag at the C-terminus.

Bio-Activity

Measured in a cell proliferation assay using HT-2 mouse T cells. The ED₅₀ for this effect is 27-108 ng/mL, corresponding to a specific activity of 9.26×10^3 - 3.70×10^4 units/mg.

Storage

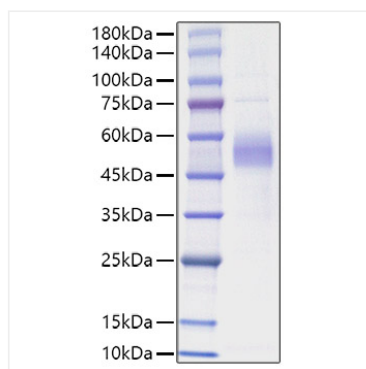
Store at -20°C. Store the lyophilized protein at -20°C to -80 °C up to 1 year from the date of receipt. After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week. Avoid repeated freeze/thaw cycles.

Contact

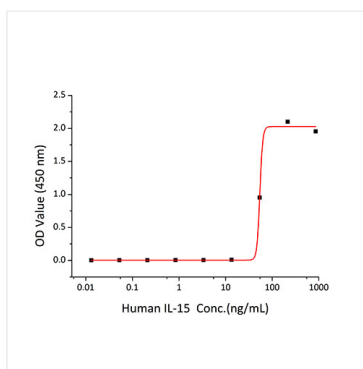


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Validation Data



Recombinant Human IL-15 Protein was determined by SDS-PAGE with Coomassie Blue, showing a band at 55-60 kDa.



Recombinant Human IL-15 stimulates cell proliferation of the HT-2 mouse T cells. The ED_{50} for this effect is 27-108 ng/mL, corresponding to a specific activity of 9.26×10^3 - 3.70×10^4 units/mg.