# Recombinant Human IL-15RA&IL-15 Protein

Catalog No.: RP02654 Recombinant

## **Sequence Information**

#### Species Human

Tags C-His

IL-15 R

Source

HEK293 cells

Synonyms

Gene ID Swiss Prot 3601&3600 Q13261-1(IL-15RA)&P409 33-1(IL-15)

Purification

determined by Tris-Bis PAGE;  $\geq$  95 % as determined by HPLC.

≥ 95 % as

Background

Interleukin-15 receptor alpha (IL-15R alpha) is a high affinity IL-15 binding protein that is crucial for mediating IL-15 functions such as memory CD8 T cell proliferation and NK, NK/T cell, and intestinal intraepithelial lymphocyte development.

## **Basic Information**

### Description

Recombinant Human IL-15RA&IL-15 Protein is expressed from Expi293 with His tag at the C-terminal.[]It contains IIe31-Ser108(IL-15RA)&Asn49-Ser162(IL-15).

### **Bio-Activity**

#### 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.

Calculated MW Observed MW

alpha[]CD215[]IL15RA[]IL-15RA[]IL-15Ralpha1[]Interleukin-15[]IL-15[]IL15

**Product Information** 

23.8 kDa 26-28, 30-32 kDa

#### Endotoxin

< 1 EU/ $\mu$ g of the protein by LAL method.

#### Formulation

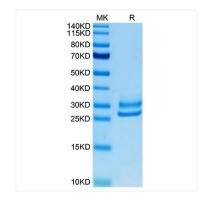
#### Reconstitution

Centrifuge the tube 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 stablizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

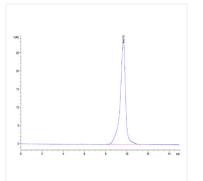
## Contact

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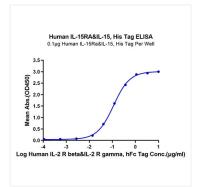




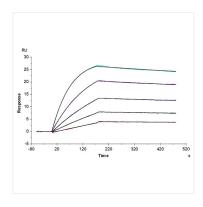
Recombinant Human IL-15RA&IL-15 Protein was determined by Tris-Bis PAGE under reducing conditions.



The purity of Human IL-15RA&IL-15 is greater than 95% as determined by SEC-HPLC.



Immobilized Human IL-15RA&IL-15, His Tag at 1µg/ml (100µl/well) on the plate. Dose response curve for Human IL-2 R beta&IL-2 R gamma, hFc Tag with the  $EC_{s0}$  of 0.11µg/ml determined by ELISA.



Human IL-2 R beta&IL-2 R gamma, hFc Tag captured on CM5 Chip via Protein A can bind Human IL-15Ra&IL-15, His Tag with an affinity constant of 0.084 nM as determined in SPR assay (Biacore T200).