

# Recombinant human IL-15R alpha/IL15RA protein

Catalog Number: ATGP3672

## PRODUCT INFORMATION

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### Expression system

Baculovirus

### Domain

31-205aa

### UniProt No.

Q13261

### NCBI Accession No.

NP\_002180

### Alternative Names

Interleukin-15 receptor subunit alpha isoform 1, IL15RA, CD215, IL-15 receptor subunit alpha

## PRODUCT SPECIFICATION

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### Molecular Weight

45.6 kDa (417aa)

### Concentration

0.5mg/ml (determined by absorbance at 280nm)

### Formulation

Liquid in. Phosphate-Buffered Saline (pH 7.4) containing 10% glycerol

### Purity

> 90% by SDS-PAGE

### Endotoxin level

< 1 EU per 1ug of protein (determined by LAL method)

### Biological Activity

Measured by its ability to inhibit proliferation using CTLL2 mouse cytotoxic T cells. The ED50 for this effect is  $\leq 2$ ng/ml with Human IL-15.

### Tag

hIgG-His-Tag

### Application

SDS-PAGE, Bioactivity

### Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

## BACKGROUND

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# Recombinant human IL-15R alpha/IL15RA protein

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## Description

IL15RA, also known as interleukin-15 receptor subunit alpha isoform 1, is a high-affinity receptor for interleukin-15. It associates as a heterotrimer with the IL-2 receptor beta and gamma subunits to initiate signal transduction. This protein can signal both in cis and trans where IL15R from one subset of cells presents IL15 to neighboring IL2RG-expressing cells. IL15/IL15R alpha complexes can transmit reverse signaling that promotes cellular adhesion, tyrosine phosphorylation of intracellular proteins, and cytokine secretion by the IL 15/IL15R alpha expressing cells. Recombinant human IL15RA protein, fused to hIgG-His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.

## Amino acid Sequence

<ADP>ITCPPPM SVEHADIWVK SYSLYSRERY ICNSGFKRKA GTSSLTECVL NKATNVAHW TTPSLKCIDP ALVHQRAPP STVTAGVTP QPESLSPSGK EPAASSPSSN NTAATTAIV PGSQLMPSKS PSTGTTEISS HESSHGTPSQ TTAKNWELTA SASHQPPGVY PQGHSDDT<LE PKSCDKTHTC PPCAPELLG GPSVFLFPPK PKDTLMISRT PEVTCVVVDV SHEDPEVKFN WYVDGVEVHN AKTKPREEQY NSTYRVVSVL TVLHQDWLNG KEYKCKVSNK ALPAPIEKTI SKAKGQPREP QVYTLPPSRD ELTKNQVSLT CLVKGFYPSD IAVEWESNGQ PENNYKTPP VLDSGDGFFL YSKLTVDKSR WQQGNVFCSC VMHEALHNHY TQKLSLSLSPG KHHHHHH>

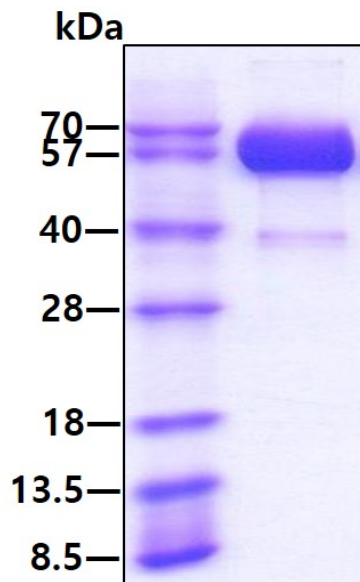
## General References

Epardaud M., et al, (2008) Cancer Res. 68:2972-2983.  
 Stoklasek TA., et al, (2006) J Immunol. 177:6072-6080.

## DATA

### SDS-PAGE

3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.



## Biological Activity

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Human IL-15 R alpha inhibits Human IL-15 induced cell proliferation in the CTLL2 mouse cytotoxic T cells. The ED50 range  $\leq 2$  ng/ml

