Recombinant human IL-15R alpha/IL15RA protein

Catalog Number: ATGP3672

PRODUCT INFORMATION

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

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 ≤2ng/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

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

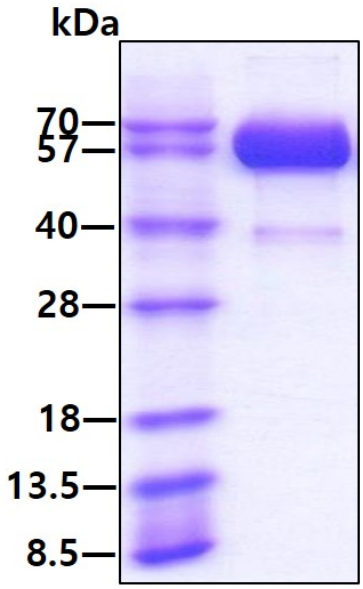
<ADP>ITCPPPM SVEHADIWVK SYSLYSRERY ICNSGFKRKA GTSSLTECVL NKATNVAHWT TPSLKCIRDP ALVHQRPAPP STVTTAGVTP QPESLSPSGK EPAASSPSSN NTAATTAAIV PGSQLMPSKS PSTGTTEISS HESSHGTPSQ TTAKNWELTA SASHQPPGVY PQGHSDTT<LE PKSCDKTHTC PPCPAPELLG GPSVFLFPPK PKDTLMISRT PEVTCVVVDV SHEDPEVKFN WYVDGVEVHN AKTKPREEQY NSTYRVVSVL TVLHQDWLNG KEYKCKVSNK ALPAPIEKTI SKAKGQPREP QVYTLPPSRD ELTKNQVSLT CLVKGFYPSD IAVEWESNGQ PENNYKTTPP VLDSDGSFFL YSKLTVDKSR WQQGNVFSCS VMHEALHNHY TQKSLSLSPG 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

Recombinant human IL-15R alpha/IL15RA protein

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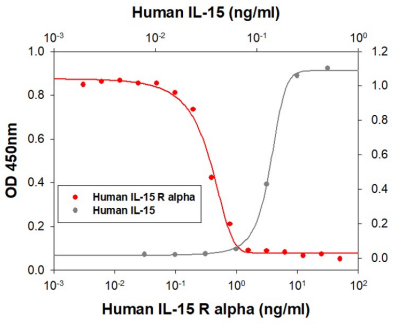

Human IL-15 R alpha inhibits Human IL-15 induced cell proliferation in the CTLL2 mouse cytotoxic T cells. The ED50 range ≤2 ng/ml