
Product Name: Bioactive, Human IL-15R α Protein Dimer, His-Avi-Tag

Product Code: CSP-24064-03

FOR RESEARCH USE ONLY (RUO)

Protein Name: IL-15R α , Protein Dimer

Alternate Name(s): IL-15Ra, IL15Ra, cluster of differentiation 215, CD215, interleukin 15 receptor subunit alpha

Expression Host
HEK293T

Amino Acid Range
I31-T205

Protein Construct

IL-15R α dimer protein contains an IL-15R α extracellular domain (UniProt# Q13261) fused with a dimer motif followed by a tandem His-Avi tag at the C-terminus. Expressed in HEK293T cell line.

SDS-Page Molecular Weight

57 kDa. The migration range of the dimer protein with glycosylation under non-reducing condition is 120-190 kDa on SDS PAGE.

Purity

Greater than 90% dimer form as determined by SDS-PAGE under non-reducing condition

Shipping Conditions

Frozen Dry Ice

Formulation

0.22 μ m filtered PBS, pH 7.4

Stability & Storage

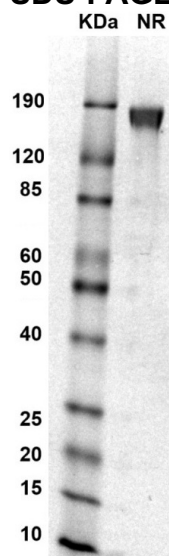
On receipt, store at -70 C or lower for long term storage.

This product is stable at:

-70 C for 6 months from date of receipt.

Avoid repeated freeze-thaw cycles

SDS-PAGE



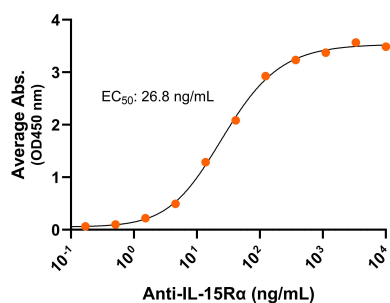
MW: Molecular Weight marker reduced condition

NR: IL-15Rα dimer under non-reduced condition

The migration range of the dimer protein with glycosylation under non-reducing condition is 120-190 kDa on SDS PAGE.

Antibody Binding

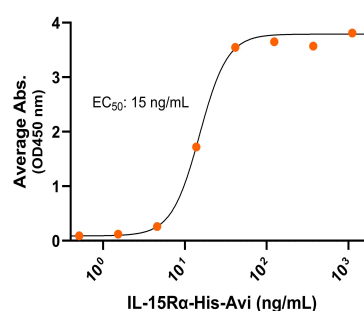
Human IL-15Rα-His-Avi dimer, ELISA
0.2 µg of IL-15Rα dimer per well



Immobilized human IL-15Rα dimer protein, His-Avi tag (Cat. No. CSP-24064-03) at 2 µg/mL (100 µL/well) can bind anti-human IL-15Rα monoclonal antibody, with half maximal effective concentration (EC₅₀) range of 13.4-53.6 µg/mL (QC tested).

Ligand Binding

Human IL-15Rα-His-Avi dimer with IL-15, ELISA
0.2 µg of IL-15 per well



Immobilized human IL-15 at 2 µg/mL (100 µL/well) can bind human IL-15Rα dimer protein, His-Avi tag (Cat. No. CSP-24064-03), with half maximal effective concentration (EC₅₀) range of 7.5-30.1 µg/mL (QC tested).

Background

Human interleukin 15 receptor alpha subunit (IL-15R α) is a transmembrane cytokine receptor. IL-15R α is also known as IL-15Ra, IL15Ra, cluster of differentiation 215 (CD215), and interleukin 15 receptor subunit alpha. IL-15R α contains an extracellular domain with a single sushi domain (short consensus repeat or complement control protein repeat), which is essential for interleukin 15 (IL-15) binding and IL-15R α function, a linker/hinge region, and a membrane-proximal proline-threonine-rich region followed by a transmembrane domain, and cytoplasmic domain. IL-15R α can homodimerize as well as heterodimerize with IL-2R β /CD122 and IL-2R γ /CD132. IL-15R α specifically binds IL-15 with very high affinity and is capable of binding IL-15 independently of other subunits. IL-15 stimulations of NK cells and T-cells has been shown to sustain long-lasting antitumor immunity, making IL-15R α an attractive therapeutic target for immunotherapies.