

Active Recombinant Human IL15RA Homodimer Protein, His&Avi tagged

Cat. No. IL15RA-49H Lot. No. (See product label)

SPECIFICATION

Product Overview

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 was expressed in HEK293T.

Species

Human

Source

HEK293T

ProteinLength

31-205 aa

Description

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.

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Molecular Mass	57 kDa
Purity	Greater than 90% dimer form as determined by SDS-PAGE under non-reducing condition
Application	Verified Applications: ELISA for IL-15R α -specific antibody and interleukin 15 (IL-15) ligand protein binding assays. Suggested Applications: SPR & BLI for IL-15R α -specific antibody and IL-15 protein binding assays. Animal immunization, RUO.
Storage	Store at -80 centigrade.
Storage Buffer	0.22 μ m filtered PBS, pH 7.4
Shipping	Frozen Dry Ice

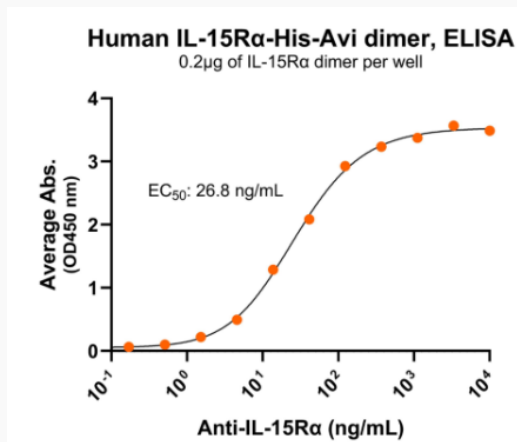
GENE INFORMATION

Gene Name	IL15RA interleukin 15 receptor, alpha [Homo sapiens (human)]
Official Symbol	IL15RA
Synonyms	IL15RA; interleukin 15 receptor, alpha; interleukin-15 receptor subunit alpha; CD215; IL 15RA; MGC104179;
Gene ID	3601
mRNA Refseq	NM_001243539
Protein Refseq	NP_001230468
MIM	601070

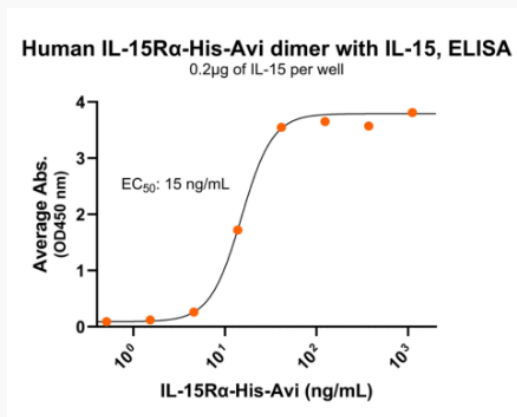
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UniProt ID
Q13261
Bioactivity-Antibody Binding


Immobilized human IL-15Rα dimer protein, His-Avi tag 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).

Bioactivity-Ligand Binding


Immobilized human IL-15 at 2 μg/mL (100 μL/well) can bind human IL-15Rα dimer protein, His-Avi tag, with half maximal effective concentration (EC₅₀) range of 7.5-

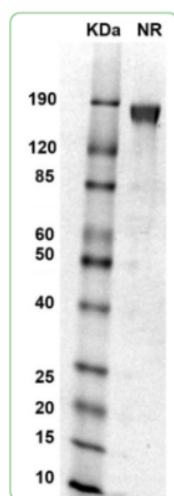
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30.1 µg/mL (QC tested).

SDS-PAGE and WB



MW: Molecular Weight marker reduced condition NR: IL-15Rα dimer under non-reduced condition

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