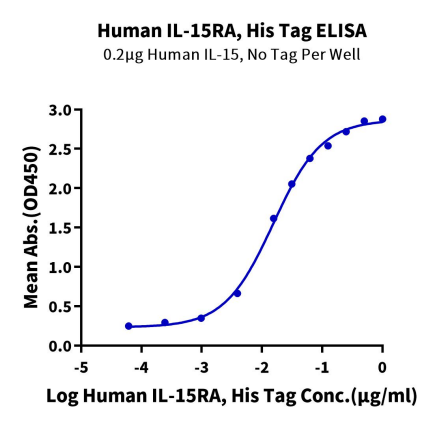
Bioactive CellTx™ HuPro®

# IL15RA (Human) Recombinant Protein

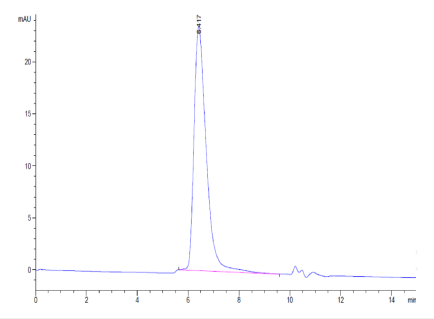
Catalog # P10260 Size 100 ug

## Applications




### Enzyme-linked Immunoabsorbent Assay

Immobilized Human IL-15 at 2 ug/ml (100 ul/Well) on the plate. Dose response curve for Human IL-15RA, His Tag with the $EC_{50}$ of 15.4 ng/ml determined by ELISA.



### SEC-HPLC

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

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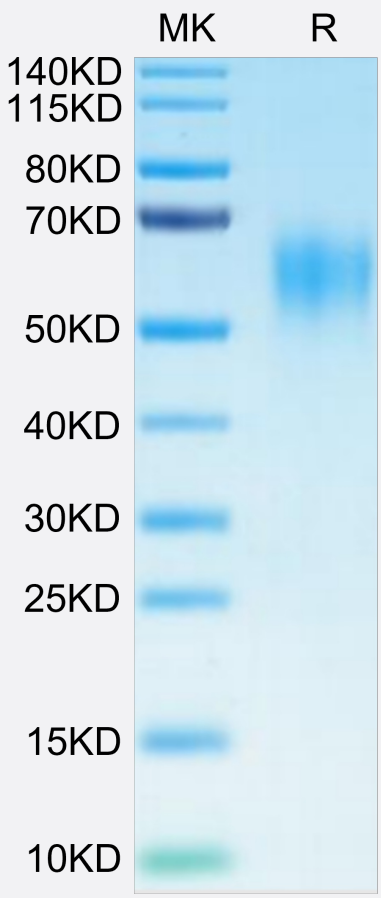


## Tris-Bis PAGE

Human IL-15RA on Tris-Bis PAGE under reduced condition. The purity is greater than 95%.

## Specification

| | |
|---|---|
| **Product Description** | Human IL15RA (Q13261-1, Ile31-Thr205) partial recombinant protein with His-Avi tag at C-terminus expressed in HEK293 cells. |
| **Sequence** | Ile31-Thr205 |
| **Host** | Human |
| **Theoretical MW (kDa)** | 21.3 |
| **Form** | Lyophilized |
| **Preparation Method** | Mammalian cell (HEK293) expression system |
| **Purity** | > 95% as determined by Tris-Bis PAGE;> 95% as determined by HPLC |
| **Endotoxin Level** | < 1 EU per 1 ug of protein (determined by LAL method) |
| **Quality Control Testing** | SEC-HPLC<br>SEC-HPLC<br>The purity of Human IL-15RA is greater than 95% as determined by SEC-HPLC.<br>Tris-Bis PAGE<br>Human IL-15RA on Tris-Bis PAGE under reduced condition. The purity is greater than 95%. |

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|---|---|
| **Recommend Usage** | Biological Activity<br>ELISA<br>SEC-HPLC<br>Tris-Bis PAGE<br>The optimal working dilution should be determined by the end user. |
| **Storage Buffer** | Lyophilized from filtered solution in PBS, pH 7.4 (5% trehalose). |
| **Storage Instruction** | After reconstitution with deionized water to a final concentration more than 100 ug/ml, store at 4°C for 1 week. For long term storage, store at -80°C for 1 year.<br>Aliquot to avoid repeated freezing and thawing. |

## Applications

- Functional Study
- Enzyme-linked Immunoabsorbent Assay

  Immobilized Human IL-15 at 2 ug/ml (100 ul/Well) on the plate. Dose response curve for Human IL-15RA, His Tag with the $EC_{50}$ of 15.4 ng/ml determined by ELISA.

## Gene Info — IL15RA

| | |
|---|---|
| **Entrez GeneID** | 3601 |
| **Protein Accession#** | Q13261-1 |
| **Gene Name** | IL15RA |
| **Gene Alias** | MGC104179 |
| **Gene Description** | interleukin 15 receptor, alpha |
| **Omim ID** | 601070 |
| **Gene Ontology** | Hyperlink |
| **Gene Summary** | The protein encoded by this gene is a cytokine receptor that specifically binds IL15 with high affini ty. The receptors of IL15 and IL2 share two subunits, the IL2R beta and IL2R gamma chains. This f orms the basis of many overlapping biological activities of IL15 and IL2. The IL2 receptor requires an additional IL2-specific alpha subunit for high affinity IL2 binding. This protein is structurally relat ed to IL2R alpha, but is capable of binding IL15 with high affinity independent of other subunits, wh ich suggests the distinct roles between IL15 and IL2. This receptor is reported to enhance cell prol iferation and expression of apoptosis inhibitor BCL2L1/BCL2-XL and BCL2. Multiple alternatively spliced transcript variants of this gene have been reported. The full length sequences of only two v ariants encoding distinct isoforms are available. [provided by RefSeq |

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|---|---|
| **Other Designations** | OTTHUMP00000019021\|OTTHUMP00000019022 |

## Pathway

- Cytokine-cytokine receptor interaction
- Jak-STAT signaling pathway

## Disease

- Adenocarcinoma
- Alzheimer Disease
- Asthma
- Bronchiolitis
- Carcinoma
- Celiac Disease
- Esophageal Neoplasms
- Genetic Predisposition to Disease
- Hyperparathyroidism
- Infant
- Kidney Failure
- Lung Neoplasms
- Lymphoma
- Metabolic Syndrome X
- Obesity
- Pulmonary Disease
- Respiratory Syncytial Virus Infections
- Syndrome
- Urinary Bladder Neoplasms

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- Werner syndrome

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