

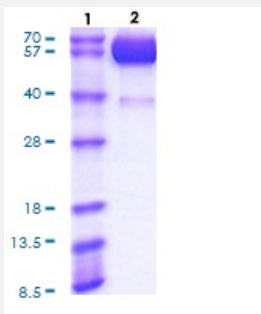
Bioactive

# IL15RA (Human) Recombinant Protein

Catalog # P8028

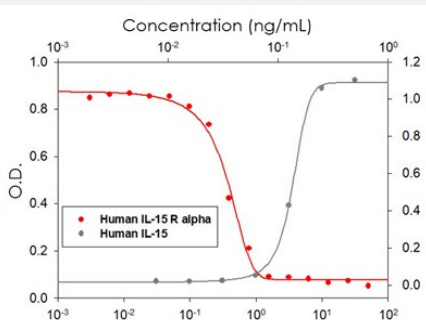
Size 250 ug

## Applications



## Result of bioactivity analysis

Result of bioactivity analysis



## Specification

|                             |                                                                                                                                                                                       |
|-----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Description</b>  | Human IL15RA (Q13261, 31 a.a. - 205 a.a.) partial length recombinant protein with hlgG-His tag expressed in Baculovirus expression system.                                            |
| <b>Sequence</b>             | ITCPPPMSEVHADMWKSYSLYSRERYICNSGFKRKAGTSSLTECVLNKATNVAHWTTPSLKCIRD<br>PALVHQRPAPPSTVTTAGVTPQPESLSPSGKEPAASSPSSNNTAATTAAMPGSQLMPSKSPST<br>GTTEISSHESSHGTPSQTTAKNWELTASASHQPPGVYPQGHSDTT |
| <b>Host</b>                 | Viruses                                                                                                                                                                               |
| <b>Theoretical MW (kDa)</b> | 45.6                                                                                                                                                                                  |
| <b>Form</b>                 | Liquid                                                                                                                                                                                |
| <b>Preparation Method</b>   | Baculovirus expression system                                                                                                                                                         |

|                         |                                                                                                                                             |
|-------------------------|---------------------------------------------------------------------------------------------------------------------------------------------|
| Purity                  | > 90% by SDS-PAGE                                                                                                                           |
| Endotoxin Level         | < 1 EU per 1 ug of protein (determined by LAL method)                                                                                       |
| Activity                | ED <sub>50</sub> is < 2 ng/mL, measured by the ability to inhibit proliferation using CTLL2 mouse cytotoxic T cells.                        |
| Quality Control Testing | 3 ug by SDS-PAGE under reducing condition and visualized by Coomassie blue stain.                                                           |
| Storage Buffer          | In Phosphate-Buffer Saline pH 7.4 (10% glycerol)                                                                                            |
| Storage Instruction     | Store at 2°C to 8°C for 1 week. For long term storage, aliquot and store at -20°C to -80°C. Aliquot to avoid repeated freezing and thawing. |
| Note                    | Result of bioactivity analysis<br>Result of bioactivity analysis                                                                            |

## Applications

- Functional Study
- SDS-PAGE

## Gene Info — IL15RA

|                    |                                |
|--------------------|--------------------------------|
| Entrez GeneID      | <a href="#">3601</a>           |
| Protein Accession# | <a href="#">Q13261</a>         |
| Gene Name          | IL15RA                         |
| Gene Alias         | MGC104179                      |
| Gene Description   | interleukin 15 receptor, alpha |
| Omim ID            | <a href="#">601070</a>         |
| Gene Ontology      | <a href="#">Hyperlink</a>      |

**Gene Summary**

The protein encoded by this gene is a cytokine receptor that specifically binds IL15 with high affinity. The receptors of IL15 and IL2 share two subunits, the IL2R beta and IL2R gamma chains. This forms 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 related to IL2R alpha, but is capable of binding IL15 with high affinity independent of other subunits, which suggests the distinct roles between IL15 and IL2. This receptor is reported to enhance cell proliferation 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 variants encoding distinct isoforms are available. [provided by RefSeq]

**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](#)
- [Werner syndrome](#)