

Bioactive

IL15RA (Human) Recombinant Protein

Catalog # P8350

Size 2 x 10 ug

Specification

Product Description Human IL15RA (Q13261, 31 a.a. - 205 a.a.) partial recombinant protein with hlgG-His tag at C-terminus expressed in Sf9 cells.

Sequence ADPITCPPPMSVEHADMWKSYSLSYRERYCNSGFKRKAGTSSLTECVLNKATNVAHWTPSLK
CIRDPALVHQRPAAPPSTVTTAGVTPQPESLSPSGKEPAASSPSSNNTAATTAAMPGSQLMPSKS
PSTGTTEISSHESSHGTPSQTTAKNWELTASASHQPPGVYPQGHSDTTLEPKSCDKTHTCPPCP
APELLGGPSVFLFPPKPKDTLMISRTPEVTCVVVDVSHEDPEVKFNWYVDGVEVHNAKTKPREE
QYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSRDEL
T KNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTPPVLDSDGSFFLYSKLTVDKSRWQQGNVF
SCSVMHEALHNHYTQKSLSLSPGKHHHHHH

Host insect

Theoretical MW (kDa) 45.6

Form Liquid

Preparation Method Sf9 cell expression system

Purity > 90% by SDS-PAGE

Activity ED₅₀ is < 2 ng/mL with Human IL-15 as determined by the ability to inhibit proliferation using CTLL2 mouse cytotoxic T cells

Recommend Usage Biological Activity
SDS-PAGE
The optimal working dilution should be determined by the end user.

Storage Buffer In PBS 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.

Applications

- Functional Study
- SDS-PAGE

Gene Info — IL15RA

Entrez GeneID [3601](#)

Protein Accession# [Q13261](#)

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 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](#)