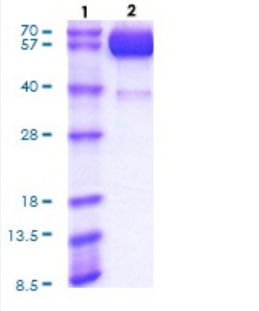
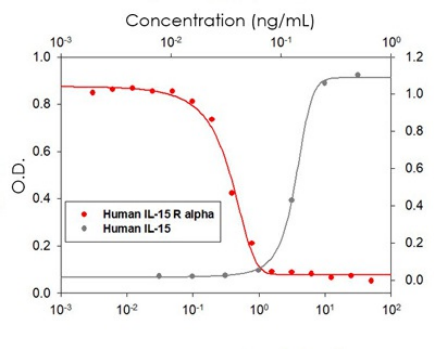
Bioactive

IL15RA (Human) Recombinant Protein

Catalog # P8028 Size 250 ug

Applications





Result of bioactivity analysis

Result of bioactivity analysis

Specification

Product Description	Human IL15RA (Q13261, 31 a.a. - 205 a.a.) partial length recombinant protein with hIgG-His tag expressed in Baculovirus expression system.
Sequence	ITCPPPMSVEHADIWVKSYSLYSRERYICNSGFKRKAGTSSLTECVLNKATNVAHWTTPSLKCIRD PALVHQRPAPPSTVTTAGVTPQPESLSPSGKEPAASSPSSNNTAATTAAIVPGSQLMPSKSPST GTTEISSHESSHGTPSQTTAKNWELTASASHQPPGVYPQGHSDTT
Host	Viruses
Theoretical MW (kDa)	45.6
Form	Liquid
Preparation Method	Baculovirus expression system

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Purity	> 90% by SDS-PAGE
Endotoxin Level	< 1 EU per 1 ug of protein (determined by LAL method)
Activity	ED_{50} 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 Result of bioactivity analysis

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

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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

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- Obesity
- Pulmonary Disease
- Respiratory Syncytial Virus Infections
- Syndrome
- Urinary Bladder Neoplasms
- Werner syndrome

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