

# Human IL15RA & IL-15 (N120D) Heterodimer Protein (Fc Tag)

Catalog Number: CT094-H02H



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## General Information

### Gene Name Synonym:

IL15 & IL15RA

### Protein Construction:

A DNA sequence encoding the human IL15RA (NP\_002180.1) (Ile31-Asp96) linked with the human IL15 (NP\_000576.1, with mutation Asn 120 Asp) (Asn49-Ser162) by a peptide linker was fused with the Fc region of human IgG1 at the C-terminus.

**Source:** Human

**Expression Host:** HEK293 Cells

## QC Testing

**Purity:** > 95 % as determined by SDS-PAGE. > 90 % as determined by SEC-HPLC.

### Bio Activity:

Measured in a cell proliferation assay using MO7e human megakaryocytic leukemic cells (QC tested).

### Endotoxin:

< 1.0 EU per µg protein as determined by the LAL method.

**Predicted N terminal:** Ile 31

### Molecular Mass:

The recombinant heterodimer of human IL15RA & IL-15 (N120D) consists of 433 amino acids and predicts a molecular mass of 47.9 kDa.

### Formulation:

Lyophilized from sterile 50mM Tris, 100mM NaCl, 5% trehalose, 0.05% chaps, pH 8.5.

Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Specific concentrations are included in the hardcopy of COA. Please contact us for any concerns or special requirements.

## Usage Guide

### Stability & Storage:

Samples are stable for twelve months from date of receipt at -20°C to -80°C.

Store it under sterile conditions at -20°C to -80°C upon receiving. Recommend to aliquot the protein into smaller quantities for optimal storage.

**Avoid repeated freeze-thaw cycles.**

### Reconstitution:

Detailed reconstitution instructions are sent along with the products.

## SDS-PAGE:



## Protein Description

IL-15 and IL-15 receptor alpha (IL-15Rα) play a significant role in multiple aspects of T cell biology. Interleukin (IL)-15 is essential for natural killer (NK), NKT and memory (m) CD8+ T cell development and function, and is currently under investigation as an immunotherapeutic agent for the treatment of cancer. Recently, the creation of IL-15 superagonist by complexing IL-15 and its high affinity receptor alpha (IL-15 Rα) in solution, inspired by the natural trans-presentation of IL-15, advances the potential of IL-15-based tumor immunotherapy. Gene therapy using engineered cells co-expressing IL-15/IL-15 Rα complex for cancer treatment is also emerging.

**For Research Use Only. Not for use in diagnostic or therapeutic procedures.**

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