

Datasheet for ABIN6731260

**IL-15 Protein (AA 49-162) (Fc Tag,AVI tag,Biotin)**[Go to Product page](#)**2** Images

## Overview

Quantity:	200 µg
Target:	IL-15 (IL15)
Protein Characteristics:	AA 49-162
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This IL-15 protein is labelled with Fc Tag,AVI tag,Biotin.

## Product Details

Sequence:	AA 49-162
Specificity:	Biotinylation of this product is performed using Avitag™ technology. Briefly, the single lysine residue in the Avitag is enzymatically labeled with biotin.
Purity:	>95 % as determined by SDS-PAGE.
Endotoxin Level:	Less than 1.0 EU per µg by the LAL method.

## Target Details

Target:	IL-15 (IL15)
Alternative Name:	IL-15 ( <a href="#">IL15 Products</a> )
Background:	Interleukin 15 is also known as IL15, IL-15, and is a cytokine with structural similarity to IL-2.

## Target Details

Like IL-2, IL-15 binds to and signals through the IL-2/IL-15 beta chain (CD122) and the common gamma chain (gamma-C, CD132). IL-15 is secreted by mononuclear phagocytes (and some other cells) following infection by virus(es). This cytokine induces cell proliferation of natural killer cells, cells of the innate immune system whose principal role is to kill virally infected cells. Interleukin 15 (IL-15) regulates T and natural killer (NK) cell activation and proliferation. Survival signals that maintain memory T cells in the absence of antigen are provided by IL-15. This cytokine is also implicated in NK cell development. In rodent lymphocytes, IL-15 prevents apoptosis by inducing an apoptosis inhibitor, BCL2L1/BCL-x(L). IL-15 has been shown to enhance the anti-tumor immunity of CD8+ T cells in pre-clinical models. A phase I clinical trial to evaluate the safety, dosing, and anti-tumor efficacy of IL-15 in patients with metastatic melanoma and renal cell carcinoma (kidney cancer) has begun to enroll patients at the National Institutes of Health.

Molecular Weight: 41.0 kDa

NCBI Accession: [NP\\_000576](#)

Pathways: [JAK-STAT Signaling](#), [Glycosaminoglycan Metabolic Process](#)

## Application Details

Comment: Ready-to-use Avitag™ biotinylated protein:

The product is exclusively produced using the Avitag™ technology. Briefly, a unique 15 amino acid peptide, the Avi tag, is introduced into the recombinant protein during expression vector construction. The single lysine residue in the Avi tag is enzymatically biotinylated by the E. Coli biotin ligase BirA.

This single-point enzymatic labeling technique brings many advantages for commonly used binding assays. The biotinylation happens on the lysine residue of Avi tag, and therefore does NOT interfere with the target protein's natural binding activities. In addition, when immobilized on an avidin-coated surface, the protein orientation is uniform because the position of the Avi tag in the protein is precisely controlled.

Restrictions: For Research Use only

## Handling

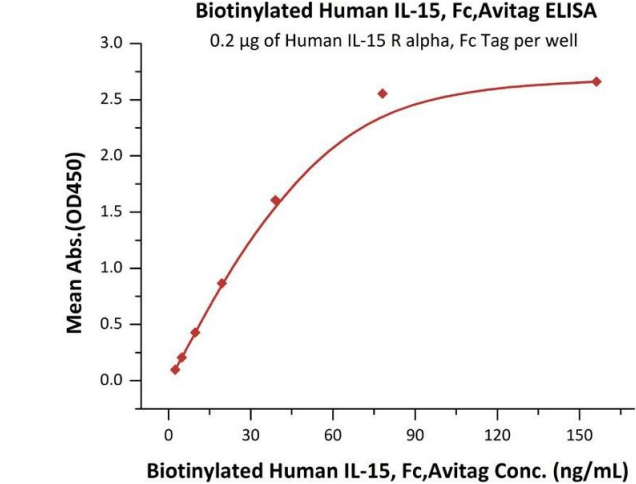
Format: Lyophilized

Buffer: Tris with Glycine, Arginine and NaCl, pH 7.5

Handling

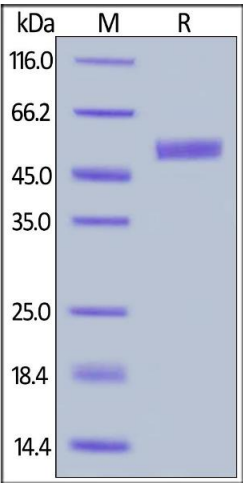
Handling Advice:	Please avoid repeated freeze-thaw cycles.
Storage:	-20 °C

Images



**ELISA**

**Image 1.** Immobilized Human IL-15 R alpha, Fc Tag (ABIN6731259,ABIN6809889) at 2 µg/mL (100 µL/well) can bind Biotinylated Human IL-15, Fc,Avitag (ABIN6731260,ABIN6809922) with a linear range of 2-78 ng/mL (QC tested).



**SDS-PAGE**

**Image 2.** Biotinylated Human IL-15, Fc,Avitag on under reducing (R) condition. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 95 % .