

Datasheet for ABIN6973118

**IL-22 Protein (AA 34-179) (His tag,AVI tag,Biotin)**[Go to Product page](#)**3** Images

## Overview

Quantity:	200 µg
Target:	IL-22 (IL22)
Protein Characteristics:	AA 34-179
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This IL-22 protein is labelled with His tag,AVI tag,Biotin.

## Product Details

Specificity:	Biotinylation of this product is performed using Avitag™ technology. Briefly, the single lysine residue in the Avitag is enzymatically labeled with biotin.
Characteristics:	Biotinylated Human IL-22 Protein, His,Avitag™
Purity:	>90 % as determined by SDS-PAGE.
Endotoxin Level:	Less than 1.0 EU per µg by the LAL method.

## Target Details

Target:	IL-22 (IL22)
Alternative Name:	IL-22 ( <a href="#">IL22 Products</a> )
Background:	Interleukin-22 (IL22) is also known as cytokine Zcyto18, IL-10-related T-cell-derived-inducible

## Target Details

factor (IL-TIF), which belongs to the IL-10 family or IL-10 superfamily (including IL-19, IL-20, IL-24, and IL-26), a class of potent mediators of cellular inflammatory responses. IL-22 is produced by activated DC and T cells and initiates innate immune responses against bacterial pathogens especially in epithelial cells such as respiratory and gut epithelial cells. IL-22 biological activity is initiated by binding to a cell-surface complex composed of IL-22R1 and IL-10R2 receptor chains and further regulated by interactions with a soluble binding protein IL-22BP. IL-22 also promotes hepatocyte survival in the liver and epithelial cells in the lung and gut similar to IL-10.

Molecular Weight: 20.3 kDa

## 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.

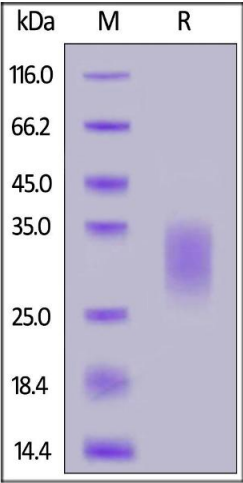
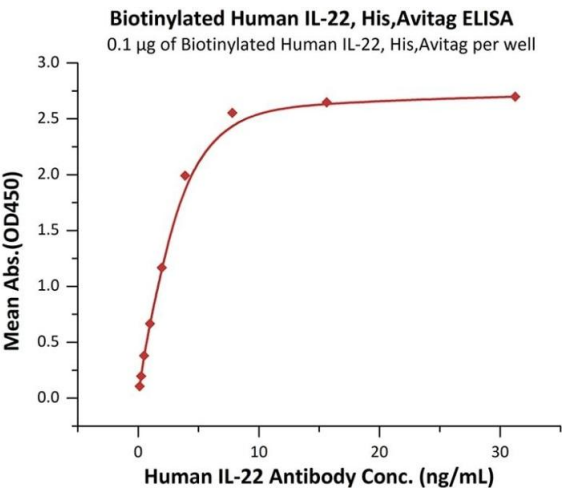
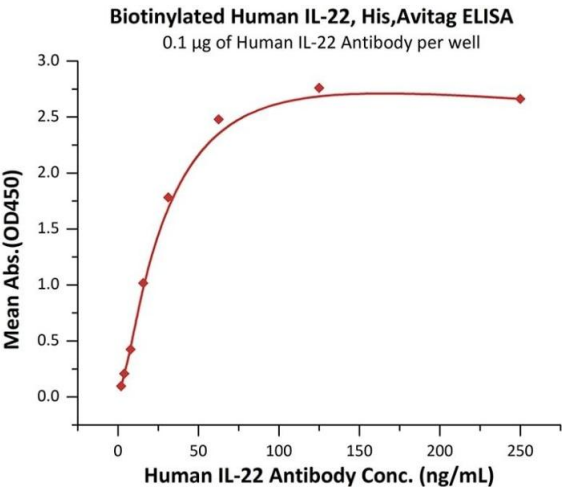
Restrictions: For Research Use only

## Handling

Format: Lyophilized

Buffer: PBS, pH 7.4

Storage: -20 °C



**ELISA**

**Image 1.** Immobilized Human IL-22 Antibody at 1 µg/mL (100 µL/well) can bind Biotinylated Human IL-22, His,Avitag (ABIN6973118) with a linear range of 1-31 ng/mL (Routinely tested).

**ELISA**

**Image 2.** Immobilized Biotinylated Human IL-22, His,Avitag (ABIN6973118) at 1 µg/mL (100 µL/well) on streptavidin precoated (0.5 µg/well) plate. can bind Human IL-22 Antibody with a linear range of 0.1-4 ng/mL (QC tested).

**SDS-PAGE**

**Image 3.** Biotinylated Human IL-22, His,Avitag™ on under reducing (R) condition. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 90 % .