

Datasheet for ABIN5674608

**TIM3 Protein (AA 22-200) (His tag,AVI tag,Biotin)**[Go to Product page](#)**2** Images**1** Publication

## Overview

Quantity:	200 µg
Target:	TIM3 (TIM 3)
Protein Characteristics:	AA 22-200
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This TIM3 protein is labelled with His tag,AVI tag,Biotin.

## Product Details

Brand:	PrecisionAvi
Sequence:	AA 22-200
Specificity:	Biotinylation of this product is performed using Avitag™ technology. Briefly, the single lysine residue in the Avitag is enzymatically labeled with biotin.
Characteristics:	This protein carries an Avi tag (Avitag™) at the C-terminus, followed by a polyhistidine tag. The protein has a calculated MW of 23.1 kDa. The protein migrates as 45-55 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.
Purity:	>90 % as determined by SDS-PAGE.
Endotoxin Level:	Less than 1.0 EU per µg by the LAL method.

## Target Details

Target:	TIM3 (TIM 3)
Alternative Name:	TIM-3 ( <a href="#">TIM 3 Products</a> )
Target Type:	Virus
Background:	<p>Hepatitis A virus cellular receptor 2 is also known as HAVCR2, FLJ14428, KIM3, TIM3, TIMD3, is a member of the TIM family of immune regulating molecules with one Ig-like V-type domain and a Ser/Thr-rich mucin stalk. CD4-positive T helper lymphocytes can be divided into types 1 (Th1) and 2 (Th2) on the basis of their cytokine secretion patterns. Th1 cells and their associated cytokines are involved in cell-mediated immunity to intracellular pathogens and delayed-type hypersensitivity reactions, whereas Th2 cells are involved in the control of extracellular helminthic infections and the promotion of atopic and allergic diseases. The 2 types of cells also cross-regulate the functions of the other. HAVCR2 is a Th1-specific cell surface protein that regulates macrophage activation and enhances the severity of experimental autoimmune encephalomyelitis in mice. HAVCR2 regulates macrophage activation. Inhibits T-helper type 1 lymphocyte (Th1)-mediated auto- and alloimmune responses and promotes immunological tolerance. May be also involved in T-cell homing. Dysregulation of the HAVCR2-galectin-9 pathway could underlie chronic autoimmune disease states in human, such as multiple sclerosis.</p>
Molecular Weight:	23.1 kDa
NCBI Accession:	<a href="#">NP_116171</a>
Pathways:	<a href="#">Regulation of Lipid Metabolism by PPARalpha, Cancer Immune Checkpoints</a>

## Application Details

Comment:	<p>Ready-to-use Avitag<sup>TM</sup> biotinylated protein:</p> <p>The product is exclusively produced using the Avitag<sup>TM</sup> 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.</p> <p>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.</p>
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Application Details

Restrictions: For Research Use only

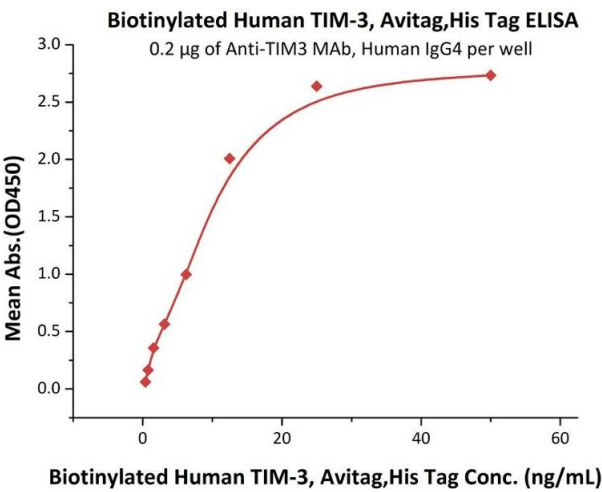
Handling

Format:	Lyophilized
Buffer:	PBS, pH 7.4
Handling Advice:	Please avoid repeated freeze-thaw cycles.
Storage:	-20 °C

Publications

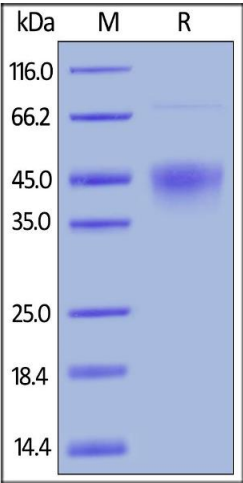
Product cited in: Wu, Li, Xia, Tian, Kong, Wang, Gu, Zhang, Tu, Xie, Yang, Lu, Jiang, Ying: "Identification of Human Single-Domain Antibodies against SARS-CoV-2." in: **Cell host & microbe**, (2020) ([PubMed](#)).

Images



ELISA

**Image 1.** Immobilized A MAb, Human IgG4 at 2 µg/mL (100 µL/well) can bind Biotinylated Human TIM-3, Avitag,His Tag (ABIN5674608,ABIN6253704) with a linear range of 0.4-13 ng/mL (QC tested).



SDS-PAGE

**Image 2.** Biotinylated Human TIM-3, Avitag,His Tag on under reducing (R) condition. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 90 % .