

Datasheet for ABIN7275129

**TGFB1 Protein (AA 30-278) (His-Avi Tag,Biotin)****3** Images[Go to Product page](#)

## Overview

Quantity:	100 µg
Target:	TGFB1
Protein Characteristics:	AA 30-278
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This TGFB1 protein is labelled with His-Avi Tag,Biotin.

## Product Details

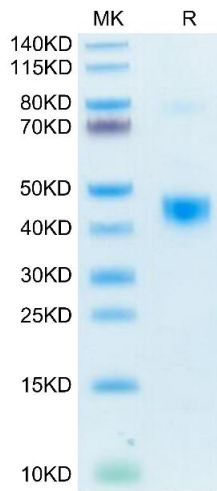
Purpose:	Biotinylated Human LAP (TGF beta 1) Protein
Sequence:	Leu30-Arg278 (C33S)
Characteristics:	Recombinant Biotinylated Human LAP (TGF beta 1) Protein is expressed from HEK293 with His tag and Avi tag at the N-Terminus.It contains Leu30-Arg278(C33S).
Purity:	> 95 % as determined by Tris-Bis PAGE,> 95 % as determined by HPLC
Sterility:	0.22 µm filtered
Endotoxin Level:	Less than 1EU per µg by the LAL method.
Biological Activity Comment:	Immobilized Biotinylated Human LAP (TGF beta 1) , His Tag at 0.5µg/ml (100µl/Well) on the plate. Dose response curve for Human TGF-beta RII, hFc Tag with the EC50 of 23.8ng/ml determined by ELISA. See testing image for detail.

## Target Details

Target:	TGFB1
Alternative Name:	LAP (TGF beta 1) ( <a href="#">TGFB1 Products</a> )
Background:	Latent TGF beta 1 cDNA encodes a 390 amino acid precursor that contains a 29 aa signal peptide and a 361 aa proprotein. A furin-like convertase processes the proprotein to generate an N-terminal 249 aa latency-associated peptide (LAP) and a C-terminal 112 aa mature TGF-beta 1. Disulfide-linked homodimers of LAP and TGF-beta 1 remain non-covalently associated after secretion, forming the small latent TGF-beta 1 complex.
Molecular Weight:	31.4 kDa. Due to glycosylation, the protein migrates to 45-50 kDa based on Tris-Bis PAGE result.
UniProt:	<a href="#">P01137</a>
Pathways:	<a href="#">EGFR Signaling Pathway</a> , <a href="#">Dopaminergic Neurogenesis</a> , <a href="#">Cellular Response to Molecule of Bacterial Origin</a> , <a href="#">Glycosaminoglycan Metabolic Process</a> , <a href="#">Regulation of Leukocyte Mediated Immunity</a> , <a href="#">Regulation of Muscle Cell Differentiation</a> , <a href="#">Positive Regulation of Immune Effector Process</a> , <a href="#">Cell-Cell Junction Organization</a> , <a href="#">Production of Molecular Mediator of Immune Response</a> , <a href="#">Ribonucleoside Biosynthetic Process</a> , <a href="#">Skeletal Muscle Fiber Development</a> , <a href="#">Regulation of Carbohydrate Metabolic Process</a> , <a href="#">Protein targeting to Nucleus</a> , <a href="#">Autophagy</a> , <a href="#">Cancer Immune Checkpoints</a>

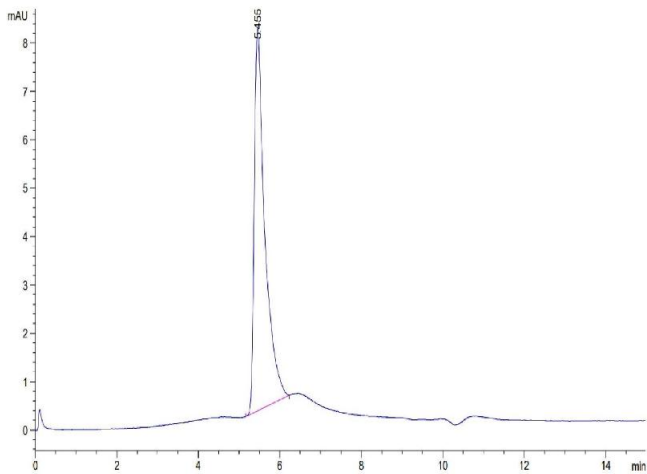
## Application Details

Restrictions:	For Research Use only
Handling	
Format:	Lyophilized
Reconstitution:	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 µg/mL is recommended. Dissolve the lyophilized protein in distilled water.
Buffer:	Lyophilized from 0.22µm filtered solution in PBS ( pH 7.4). Normally 8 % trehalose is added as protectant before lyophilization.
Storage:	-20 °C,-80 °C
Storage Comment:	-20 to -80°C for 12 months as supplied from date of receipt.,-80°C for 3-6 months after reconstitution.,2-8°C for 2-7 days after reconstitution.,Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.
Expiry Date:	12 months



SDS-PAGE

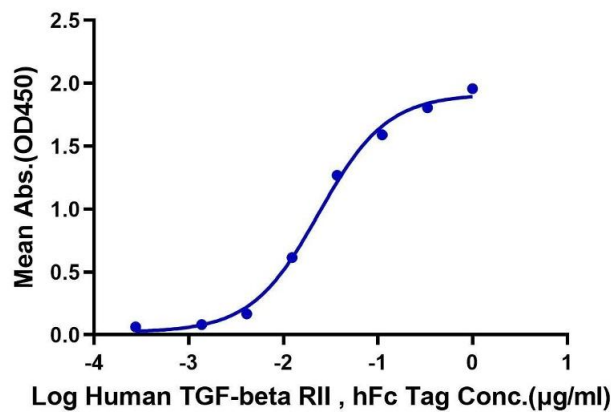
**Image 1.** Biotinylated Human LAP (TGF beta 1) on Tris-Bis PAGE under reduced condition. The purity is greater than 95 % .



Size-exclusion chromatography-High Pressure Liquid Chromatography

**Image 2.** The purity of Biotinylated Human LAP (TGF beta 1) is greater than 95 % as determined by SEC-HPLC.

**Biotinylated Human LAP (TGF beta 1), His Tag ELISA**  
0.05µg Biotinylated Human LAP (TGF beta 1), His Tag Per Well



ELISA

**Image 3.** Immobilized Biotinylated Human LAP (TGF beta 1), His Tag at 0.5 µg/mL (100 µL/Well) on the plate. Dose response curve for Human TGF-beta RII, hFc Tag with the EC50 of 23.8 ng/mL determined by ELISA.