

# Human Integrin alpha V beta 8 (ITGAV&ITGB8) Heterodimer Protein

Cat. No. ITG-HM4V8

## Description

<b>Source</b>	Recombinant Human Integrin alpha V beta 8 (ITGAV&ITGB8) Heterodimer Protein is expressed from HEK293 with His tag and Avi tag at the C-Terminus It contains Phe31-Val992(ITGAV) acidic tail & Glu43-Arg684(ITGB8) basic tail.
<b>Accession</b>	P06756-1(ITGAV)&P26012-1(ITGB8)
<b>Molecular Weight</b>	The protein has a predicted MW of 114 kDa (ITGAV) and 76 kDa (ITGB8). Due to glycosylation, the protein migrates to 90-150 kDa based on Bis-Tris PAGE result.
<b>Endotoxin</b>	Less than 1 EU per µg by the LAL method.
<b>Purity</b>	> 95% as determined by Bis-Tris PAGE; > 95% as determined by HPLC

## Formulation and Storage

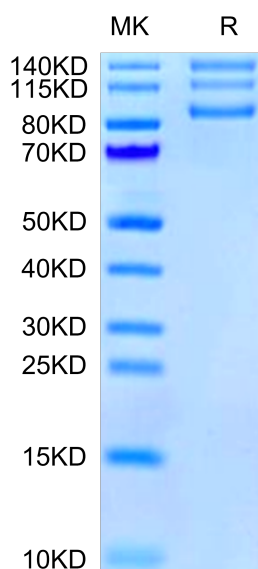
<b>Formulation</b>	Lyophilized from 0.22 µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
<b>Reconstitution</b>	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 µg/ml is recommended. Dissolve the lyophilized protein in distilled water.
<b>Storage</b>	-20 to -80°C for 12 months as supplied from date of receipt. -80°C for 3 months after reconstitution. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.

## Background

Integrin  $\alpha V\beta 8$  is a heterodimeric cell surface receptor involved in various cellular processes, including cell adhesion, migration, and signaling. It is recognized for its unique role in activating TGF- $\beta$  and has been implicated in immune responses and tissue homeostasis. Due to its distinctive structure and function, integrin  $\alpha V\beta 8$  is considered atypical among integrin family members.

## Assay Data

### Bis-Tris PAGE



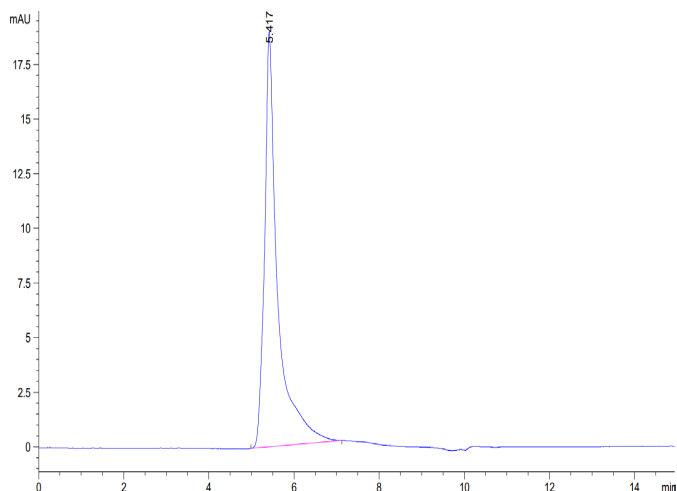
Human ITGAV&ITGB8 on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.

### SEC-HPLC

# Human Integrin alpha V beta 8 (ITGAV&ITGB8) Heterodimer Protein

Cat. No. ITG-HM4V8

## Assay Data

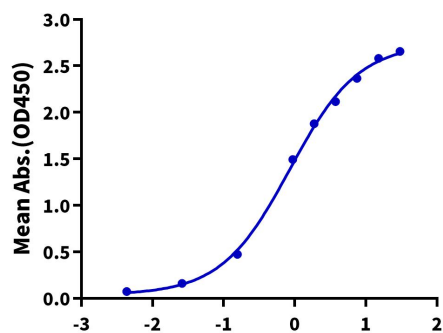


The purity of Human ITGAV&ITGB8 is greater than 95% as determined by SEC-HPLC.

## ELISA Data

### Human ITGAV&ITGB8, His Tag ELISA

0.5µg Human ITGAV&ITGB8, His Tag Per Well



Immobilized Human ITGAV&ITGB8, His Tag at 5 µg/ml (100 µl/well) on the plate. Dose response curve for Biotinylated Human Latent TGF beta 1, His Tag with the EC50 of 0.85 µg/ml determined by ELISA.