

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



Cat. No. ITG-HM4V8B

## Description

<b>Source</b>	Recombinant Biotinylated 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)&76 kDa (ITGB8) kDa. Due to glycosylation, the protein migrates to 85-145 kDa based on Bis-Tris PAGE result.
<b>Endotoxin</b>	Less than 1EU per µg by the LAL method.
<b>Purity</b>	> 95% as determined by Bis-Tris PAGE > 95% as determined by HPLC

## Formulation and Storage

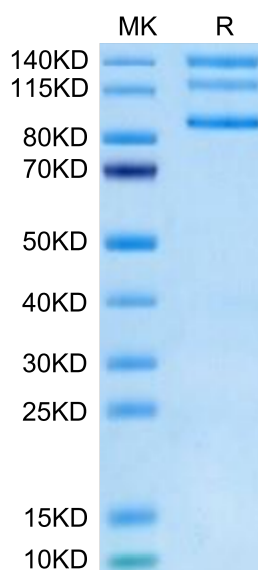
<b>Formulation</b>	Lyophilized from 0.22µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
<b>Reconstitution</b>	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 µg/ml is recommended. Dissolve the lyophilized protein 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

Deletions of the genes encoding the integrin  $\alpha V\beta 8$  (Itgav, Itgb8) have been shown to result in abnormal vascular development in the CNS, including prenatal and perinatal hemorrhage. Other work has indicated that a major function of this integrin in vivo is to promote TGF $\beta$  activation.

## Assay Data

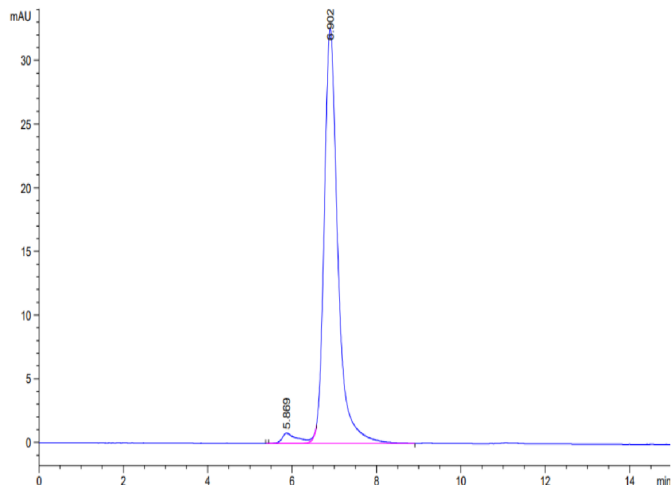
### Bis-Tris PAGE



Biotinylated Human Integrin alpha V beta 8 (ITGAV&ITGB8) Heterodimer on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.

### SEC-HPLC

Assay Data

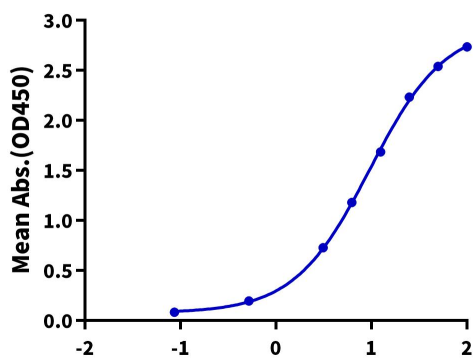


The purity of Biotinylated Human Integrin alpha V beta 8 (ITGAV&ITGB8) Heterodimer is greater than 95% as determined by SEC-HPLC.

ELISA Data

**Biotinylated Human ITGAV&ITGB8, His Tag ELISA**

0.5µg Human Latent TGF beta 1, HisTag Per Well



Immobilized Human Latent TGF beta 1, His Tag at 5µg/ml (100µl/well) on the plate. Dose response curve for Biotinylated Human ITGAV&ITGB8, His Tag with the EC50 of 9.62ug/ml determined by ELISA.