

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

Cat. No. ITG-MM1V8

## Description

<b>Source</b>	Recombinant Mouse Integrin alpha V beta 8 (ITGAV&ITGB8) Heterodimer Protein is expressed from HEK293 with His tag at the C-Terminus. It contains Phe31-Val988(ITGAV) acidic tail & Gly22-Ser679(ITGB8) basic tail.
<b>Accession</b>	P43406(ITGAV)&Q0VBD0(ITGB8)
<b>Molecular Weight</b>	The protein has a predicted MW of 111.6(ITGAV) & 76.6(ITGB8) kDa. Due to glycosylation, the protein migrates to 80-140 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

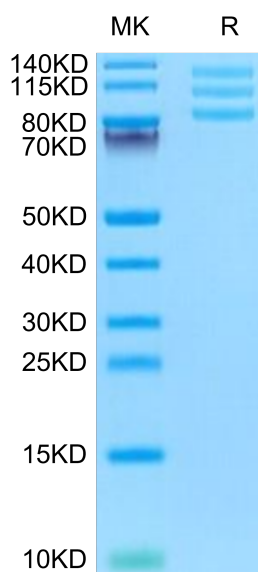
<b>Formulation</b>	Lyophilized from 0.22µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
<b>Reconstitution</b>	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 µg/ml is recommended. Dissolve the lyophilized protein in distilled water.
<b>Storage</b>	-20 to -80°C for 24 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



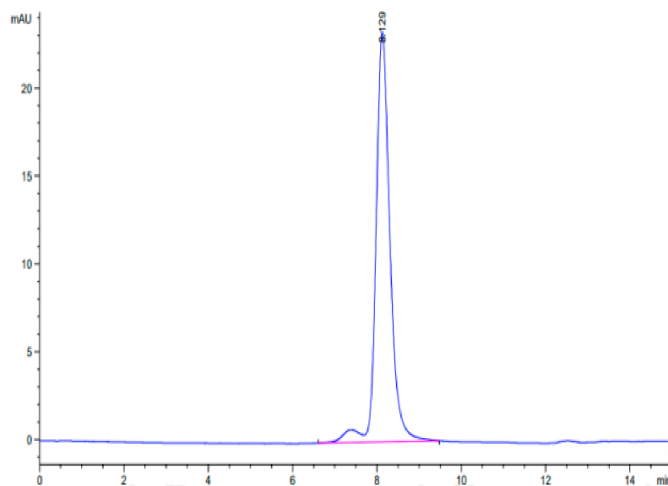
Mouse ITGAV&ITGB8 on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.

### SEC-HPLC

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## Assay Data

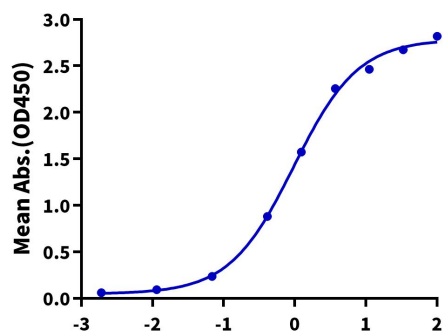


The purity of Mouse ITGAV&ITGB8 is greater than 95% as determined by SEC-HPLC.

## ELISA Data

### Mouse ITGAV&ITGB8, His Tag ELISA

0.5µg Mouse ITGAV&ITGB8, His Tag Per Well



Immobilized Mouse ITGAV&ITGB8, His Tag at 5µg/ml (100µl/Well) on the plate. Dose response curve for Biotinylated Human Latent TGF beta 1, His Tag with the EC50 of 0.97µg/ml determined by ELISA.

Log Biotinylated Human Latent TGF beta 1, His Tag Conc.(µg/ml)