

# Human Integrin alpha V beta 3 (ITGAV&ITGB3) Heterodimer Protein

Cat. No. ITG-HM4V3

## Description

<b>Source</b>	Recombinant Human Integrin alpha V beta 3 (ITGAV&ITGB3) Heterodimer Protein is expressed from HEK293 with His tag and Avi tag at the C-Terminus. It contains Phe31-Val992(ITGAV) acidic tail & GLy27-Asp718(ITGB3) basic tail.
<b>Accession</b>	P06756-1(ITGAV)&P05106-1(ITGB3)
<b>Molecular Weight</b>	The protein has a predicted MW of 114 kDa (ITGAV) & 81.3 kDa (ITGB3). Due to glycosylation, the protein migrates to 85-140 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

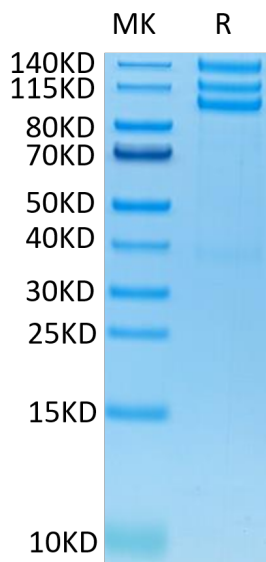
<b>Formulation</b>	Lyophilized from 0.22µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
<b>Reconstitution</b>	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 µg/ml is recommended. Dissolve the lyophilized protein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

ITGAV&ITGB3 binds to NRG1 (via EGF domain) and this binding is essential for NRG1-ERBB signaling. ITGAV&ITGB3 binds to FGF1 and this binding is essential for FGF1 signaling. ITGAV&ITGB3 binds to FGF2 and this binding is essential for FGF2 signaling. ITGAV&ITGB3 binds to IGF1 and this binding is essential for IGF1 signaling. ITGAV&ITGB3 binds to IGF2 and this binding is essential for IGF2 signaling.

## Assay Data

### Bis-Tris PAGE



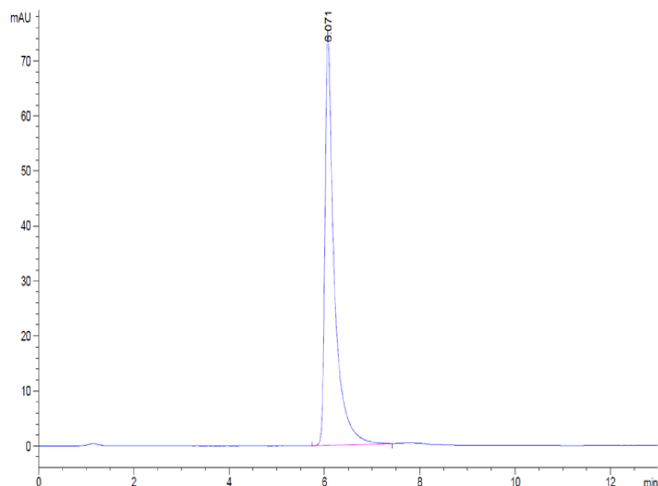
Human ITGAV&ITGB3 on Bis-Tris PAGE under reduced conditions. The purity is greater than 95%.

### SEC-HPLC

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## Assay Data

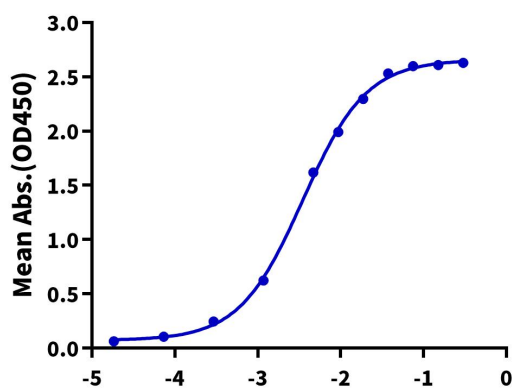


The purity of Human ITGAV&ITGB3 is greater than 95% as determined by SEC-HPLC.

## ELISA Data

### Human ITGAV&ITGB3, His Tag ELISA

0.2  $\mu$ g Human ITGAV&ITGB3, His Tag Per Well



Immobilized Human ITGAV&ITGB3, His Tag at 2  $\mu$ g/ml (100  $\mu$ l/well) on the plate. Dose response curve for Anti-alpha V beta3 Antibody, hFc Tag with the EC50 of 3.5ng/ml determined by ELISA.

Log Anti-alpha V beta3 Antibody, hFc Tag Conc.( $\mu$ g/ml)