

Cat. No. ITG-HM1V6

**Description**

<b>Source</b>	Recombinant Mouse&Human Chimeric Integrin alpha V beta 6 (ITGAV&ITGB6) Heterodimer Protein is expressed from HEK293 with His tag at the C-terminus. It contains Phe31-Val988 (ITGAV) acidic tail and Gly22-Asn707 (ITGB6) basic tail.
<b>Accession</b>	P43406(ITGAV)&&P18564-1(ITGB6)
<b>Molecular Weight</b>	The protein has a predicted MW of 131.48 kDa (ITGAV) and 79.1 kDa (ITGB6). Due to glycosylation, the protein migrates to 120-160 kDa (ITGAV) and 90-120 kDa (ITGB6) 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 0.22 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**

ITGAV&ITGB6 is a receptor for fibronectin and cytotactin. It recognizes the sequence R-G-D in its ligands. Internalisation of integrin alpha-V/beta-6 via clathrin-mediated endocytosis promotes carcinoma cell invasion. ITGAV&ITGB6 acts as a receptor for fibrillin-1 (FBN1) and mediates R-G-D-dependent cell adhesion to FBN1.

**Assay Data**

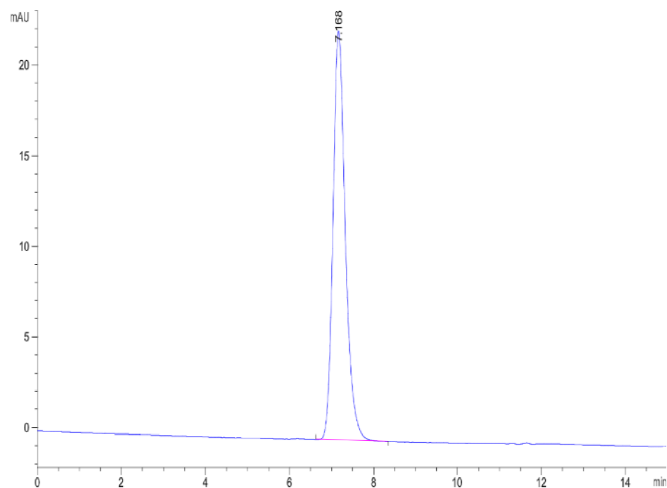
**Bis-Tris PAGE**



Mouse&Human Chimeric ITGAV&ITGB6 on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.

**SEC-HPLC**

**Assay Data**

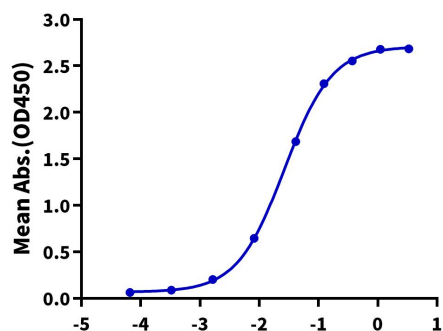


The purity of Mouse&Human Chimeric ITGAV&ITGB6 is greater than 95% as determined by SEC-HPLC.

**ELISA Data**

**Human&Mouse Chimeric ITGAV&ITGB6, His Tag ELISA**

0.2µg Human&Mouse Chimeric ITGAV&ITGB6, His Tag Per Well



Immobilized Mouse&Human Chimeric ITGAV&ITGB6, His Tag at 2µg/ml (100µl/well) on the plate. Dose response curve for Biotinylated Human Latent TGF beta 1, His Tag with the EC50 of 26.5ng/ml determined by ELISA.