Human Integrin alpha V beta 1 (ITGAV&ITGB1) Heterodimer Protein

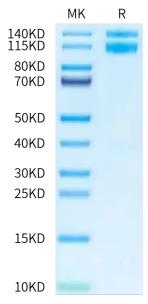




Description	
Source	Recombinant Human Integrin alpha V beta 1 (ITGAV&ITGB1) Heterodimer Protein is expressed from HEK293 with His tag and Avi tag at the C-Terminus.
	It contains Phe31-Val992 (ITGAV) acidic tail & Gln21-Asp728 (ITGB1) basic tail.
Accession	P06756-1(ITGAV)&P05556-1(ITGB1)
Molecular Weight	The protein has a predicted MW of 114 kDa (ITGAV) and 83.2 kDa (ITGB1). Due to glycosylation, the protein migrates to 130-160 kDa (ITGAV) and 100-120 kDa (ITGB1) based on Bis-Tris PAGE result.
Endotoxin	Less than 1EU per μg by the LAL method.
Purity	> 95% as determined by Bis-Tris PAGE
	> 95% as determined by HPLC
Formulation and Storage	
Formulation	Lyophilized from 0.22 μ m filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 µg/ml is recommended. Dissolve the lyophilized protein in distilled water.
Storage	-20 to -80°C for 12 months as supplied from date of receipt80°C for 3 months after reconstitution.Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.
Background	
	Integrins are transmembrane heterodimeric receptors that contribute to diverse biological functions and play a conserved role in mediating cell adhesion to fixed extracellular ligands and in the maintenance of tissue integrity. $\alpha V\beta 1$ is the major integrin on several different primary fibroblasts responsible for binding to TGFb1 LAP and for mediating activation of latent TGFb by these cells.

Assay Data

Bis-Tris PAGE

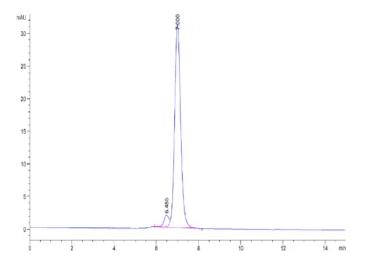


Human ITGAV&ITGB1 on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.

SEC-HPLC



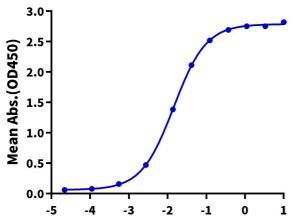
Assay Data



The purity of Human ITGAV&ITGB1 is greater than 95% as determined by SEC-HPLC.

ELISA Data

Human ITGAV&ITGB1, His Tag ELISA 0.2µg Human ITGAV&ITGB1, His Tag Per Well



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

Immobilized Human ITGAV&ITGB1, His Tag at $2\mu g/ml$ (100 $\mu l/well$) on the plate. Dose response curve for Anti-alpha V Antibody, hFc Tag with the EC50 of 14.4ng/ml determined by ELISA.