

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



Cat. No. ITG-HM4V3

Description

Source	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.
Accession	P06756-1(ITGAV)&P05106-1(ITGB3)
Molecular Weight	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.
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

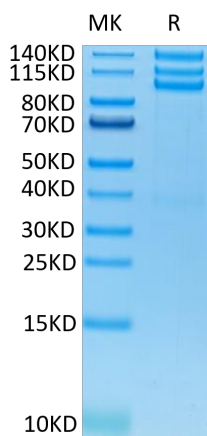
Formulation	Lyophilized from 0.22µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 µg/ml is recommended. Dissolve the lyophilized protein in distilled water.
Storage	-20 to -80°C for 12 months as supplied from date of 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.

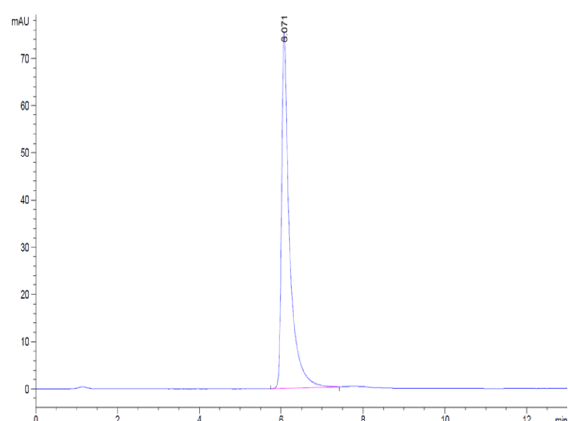
Assay Data

Bis-Tris PAGE



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

SEC-HPLC



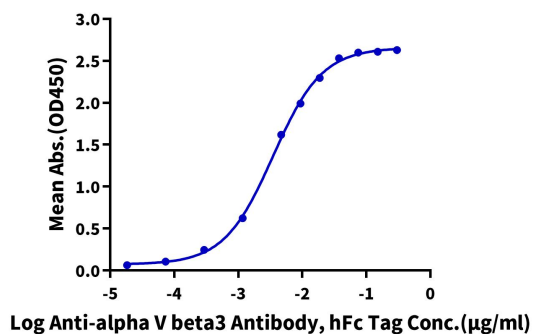
The purity of Human ITGAV&ITGB3 is greater than 95% as determined by SEC-HPLC.

Assay Data

ELISA Data

Human ITGAV&ITGB3, His Tag ELISA

0.2µg Human ITGAV&ITGB3, His Tag Per Well



Immobilized Human ITGAV&ITGB3, His Tag at 2µg/ml (100µl/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.