

Human Integrin alpha V beta 5 (ITGAV&ITGB5) Heterodimer Protein

Cat. No. ITG-HM4V5

Description

Source	Recombinant Human Integrin alpha V beta 5 (ITGAV&ITGB5) Heterodimer Protein is expressed from HEK293 with His tag and Avi tag at the C-Terminus of ITGAV. It contains Phe31-Val992(ITGAV) acidic tail and Gly24-Asn719(ITGB5) basic tail.
Accession	P06756-1(ITGAV)&P18084(ITGB5)
Molecular Weight	The protein has a predicted MW of 114 kDa (ITGAV) & 81.4 kDa (ITGB5). Due to glycosylation, the protein migrates to 85-140 kDa based on Bis-Tris PAGE result.
Endotoxin	Less than 1 EU per µg by the LAL method.
Purity	> 95% as determined by Bis-Tris PAGE

Formulation and Storage

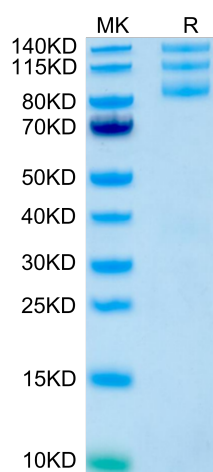
Formulation	Lyophilized from 0.22µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Dissolve the lyophilized protein in distilled water. Please refer to the Certificate of Analysis for detailed instructions.
Storage	-20 to -80°C for 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

Integrin ITGAV & ITGB5 is a type of integrin that binds to matrix macromolecules and proteinases and thereby stimulates angiogenesis. However, it inhibits angiogenesis. It consists of two components, integrin alpha V and integrin beta 5. Integrin ITGAV & ITGB5 is a receptor for fibronectin. It recognizes the sequence R-G-D in its ligand. (Microbial infection) Integrin ITGAV & ITGB5 acts as a receptor for adenovirus type C.

Assay Data

Bis-Tris PAGE

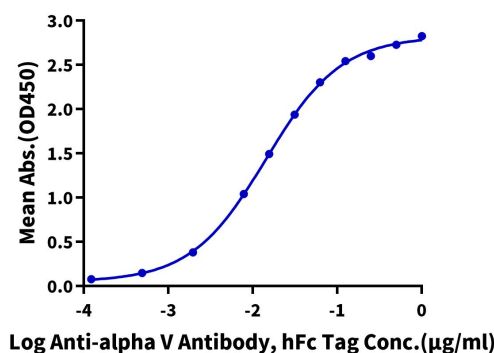


Human ITGAV&ITGB5 on Bis-Tris PAGE under reduced conditions. The purity is greater than 95%.

ELISA Data

Human ITGAV&ITGB5, His Tag ELISA

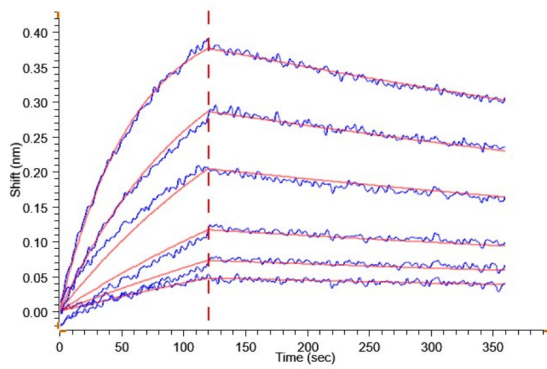
0.2µg Human ITGAV&ITGB5, His Tag Per Well



Immobilized Human ITGAV&ITGB5, His Tag at 2µg/ml (100µl/Well) on the plate. Dose response curve for Anti-alpha V Antibody, hFc Tag with the EC50 of 14.3ng/ml determined by ELISA.

Assay Data

BLI Data



Loaded Anti-alpha V Ab., hFc Tag on ProA-Biosensor can bind Biotinylated Human ITGAV&ITGB5, His-Avi Tag with an affinity constant of 57.4 nM as determined in BLI assay (Gator® Prime).