

Integrin alpha V beta 6 Protein, Human, Recombinant (Avi & His)

General Information

Synonyms:	ITGAV & ITGB6; Integrin alpha V β 6; integrin, alpha 5 (fibronectin receptor, alpha polypeptide); Integrin α V β 6; integrin, α 5 (fibronectin receptor, α polypeptide)
Protein Construction:	Phe31-Val992(ITGAV) acidic tail & Gly22-Asn707(ITGB6) basic tail
Species:	Human
Expression Host:	HEK293 Cells
Accession:	P06756-1(ITGAV)&P18564-1(ITGB6)
Molecular Weight:	114 kDa (ITGAV) & 79.1 kDa (ITGB6) (Predicted); 90-150 kDa (Due to glycosylation)

QC Testing

Biological Activity:	Immobilized Human ITGAV&ITGB6, His Tag at 1 μ g/ml (100 μ l/well) on the plate. Dose response curve for Biotinylated Human Latent TGF beta 1, His Tag with the EC50 of 0.49 μ g/ml determined by ELISA.
Purity:	> 95% as determined by Tris-Bis PAGE; > 95% as determined by HPLC
Endotoxin:	< 1.0 EU/ μ g of the protein as determined by the LAL method.
Formulation:	Lyophilized from 0.22 μ m filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.

Preparation and Storage

Reconstitution:

Reconstitute the lyophilized protein in sterile deionized water. The product concentration should not be less than 100 μ g/mL. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein 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.

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