



## Synonym

Integrin alpha V beta 6, ITGAV&ITGB6

## Source

Mouse & Human ITGAV&ITGB6 Heterodimer Protein, His Tag&Tag Free (IT6-M52E3) is expressed from human 293 cells (HEK293). It contains AA Phe 31 - Val 988 & Gly 22 - Asn 707 (Accession # [P43406-1](#) & [AAI21179.1](#)).

Predicted N-terminus: Phe 31 & Gly 22

## Molecular Characterization

ITGAV (Phe 31 - Val 988) P43406-1	Acidic Tail	Poly-his
ITGB6 (Gly 22 - Asn 707) AAI21179.1	Basic Tail	

Mouse & Human ITGAV&ITGB6 Heterodimer Protein, His Tag&Tag Free, produced by co-expression of ITGAV and ITGB6, has a calculated MW of 112.5 kDa (ITGAV) and 79.6 kDa (ITGB6). Subunit ITGAV is fused with an acidic tail at the C-terminus and followed by a polyhistidine tag and subunit ITGB6 contains no tag but a basic tail at the C-terminus. The protein migrates as 130-150 kDa (ITGAV) and 80-90 kDa (ITGB6) when calibrated against [Star Ribbon Pre-stained Protein Marker](#) under non-reducing (NR) condition (SDS-PAGE) due to glycosylation.

## Endotoxin

Less than 1.0 EU per µg by the LAL method / rFC method.

## Purity

>90% as determined by SDS-PAGE.

## Formulation

Lyophilized from 0.22 µm filtered solution in 50 mM Tris, 150 mM NaCl, pH7.5 with trehalose as protectant.

Contact us for customized product form or formulation.

## Reconstitution

Please see Certificate of Analysis for specific instructions.

**For best performance, we strongly recommend you to follow the reconstitution protocol provided in the CoA.**

## Storage

For long term storage, the product should be stored at lyophilized state at -20°C or lower.

**Please avoid repeated freeze-thaw cycles.**

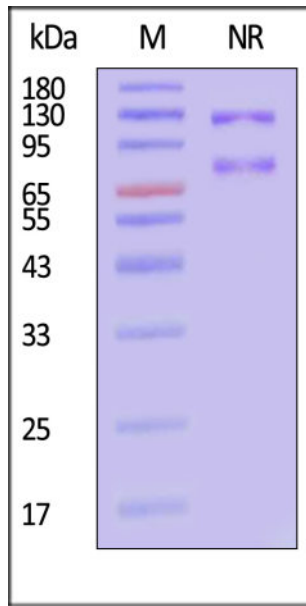
This product is stable after storage at:

- -20°C to -70°C for 12 months in lyophilized state;
- -70°C for 3 months under sterile conditions after reconstitution.

## ACRO Quality Management System

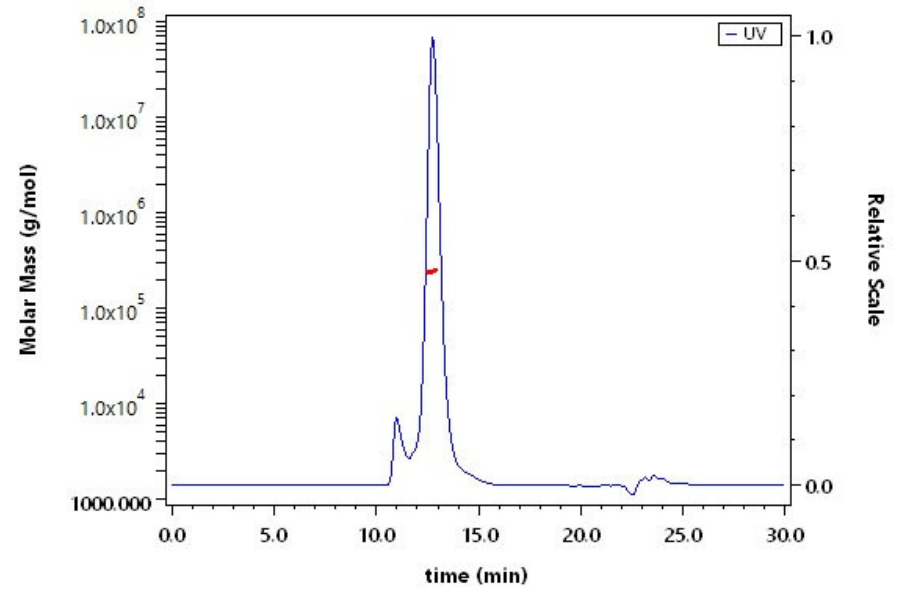
- [QMS\(ISO, GMP\)](#)
- [Quality Advantages](#)
- [Quality Control Process](#)

## SDS-PAGE



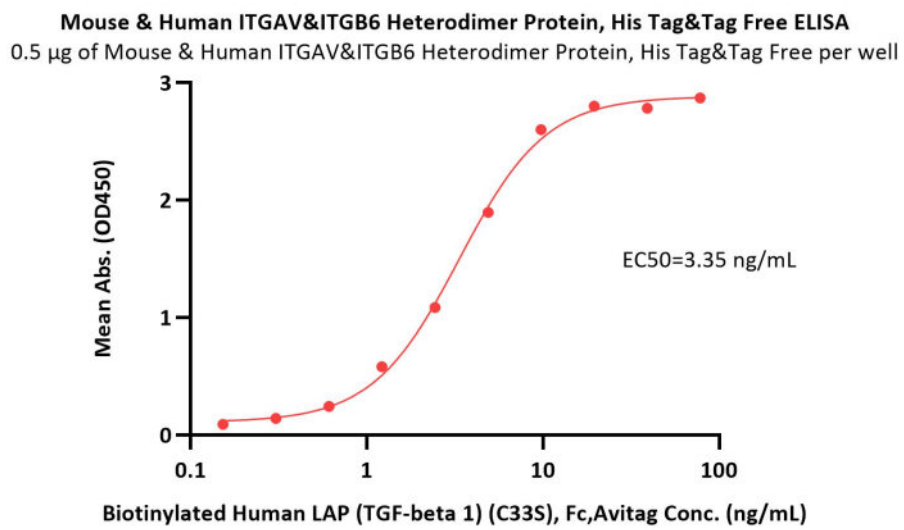
Mouse & Human ITGAV&ITGB6 Heterodimer Protein, His Tag&Tag Free on SDS-PAGE under non-reducing (NR) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 90% (With [Star Ribbon Pre-stained Protein Marker](#)).

## SEC-MALS



The purity of Mouse & Human ITGAV&ITGB6 Heterodimer Protein, His Tag&Tag Free (Cat. No. IT6-M52E3) is more than 85% and the molecular weight of this protein is around 200-260 kDa verified by SEC-MALS.

## Bioactivity-ELISA



Immobilized Mouse & Human ITGAV&ITGB6 Heterodimer Protein, His Tag&Tag Free (Cat. No. IT6-M52E3) at 5 µg/mL (100 µL/well) can bind Biotinylated Human LAP (TGF-beta 1) (C33S), Fc,Avitag (Cat. No. LAP-H82F8) with a linear range of 0.2-10 ng/mL (QC tested).

## Background

Integrin alpha V beta 6 is a heterodimer of beta-6 associating with alpha-V. Integrin alpha-V beta-6 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. Also, Integrin alpha-V beta-6 acts as a receptor for coxsackievirus A9 and coxsackievirus B1 as well as herpes simplex virus-1/HHV-1. Furthermore, it binds the TGF-beta latency-associated peptide (LAP) and activates TGF-beta 1 or TGF-beta 3 from large latent complexes. This activation requires interaction with LTBP-1 and fibronectin, and is enhanced by PAR-1.

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