

# Mouse Integrin alpha V beta 3 (ITGAV&ITGB3) Heterodimer Protein, His Tag&Tag Free (MALS verified)

Catalog # IT3-M52W3



BIOSYSTEMS  
**Acro**

Surprise Inside!

## Synonym

Integrin alpha V beta 3, ITGAV&ITGB3

## Source

Mouse ITGAV&ITGB3 Heterodimer Protein, His Tag&Tag Free (IT3-M52W3) is expressed from human 293 cells (HEK293). It contains AA Phe 31 - Val 988 | Glu 26 - Asp 717 (Accession # P43406-1 | O54890).

Predicted N-terminus: Phe 31 | Glu 26

## Molecular Characterization

ITGAV (Phe 31 - Val 988) P43406-1	Acidic Tail	Poly-his
ITGB3 (Glu 26 - Asp 717) O54890	Basic Tail	

The protein has a calculated MW of 112.5 kDa | 81.6 kDa. The protein migrates as 95-105 kDa, 120-130 kDa and 140-160 kDa when calibrated against [Star Ribbon Pre-stained Protein Marker](#) under reducing (R) condition (SDS-PAGE) due to glycosylation.

The protein is designed as a heterodimer.

## Endotoxin

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

## Purity

>95% as determined by SDS-PAGE.

>90% as determined by SEC-MALS.

## 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.**

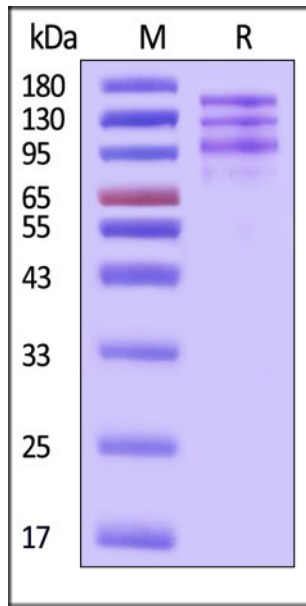
This product is stable after storage at:

- -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

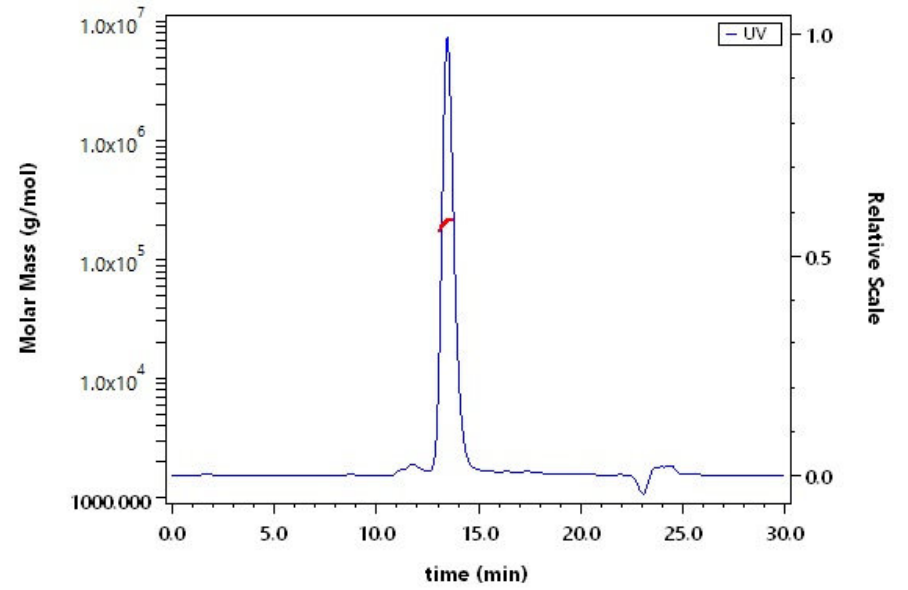
- [QMS\(ISO, GMP\)](#)
- [Quality Advantages](#)
- [Quality Control Process](#)

## SDS-PAGE



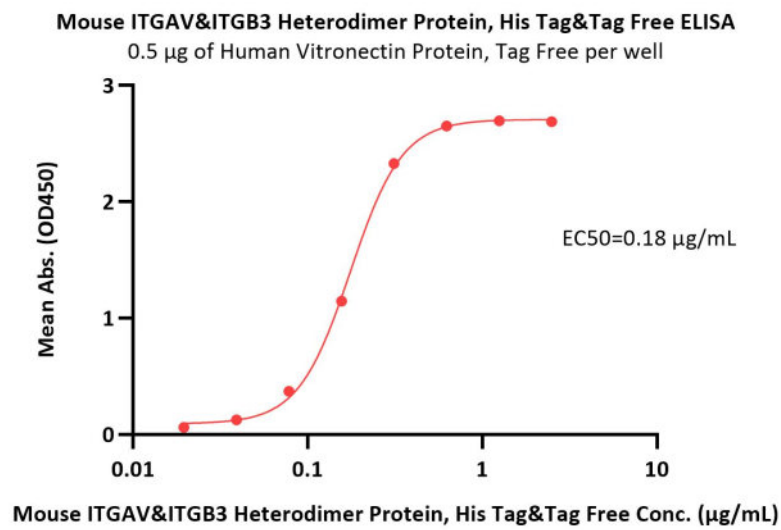
Mouse ITGAV&ITGB3 Heterodimer Protein, His Tag&Tag Free on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 95% (With [Star Ribbon Pre-stained Protein Marker](#)).

## SEC-MALS



The purity of Mouse ITGAV&ITGB3 Heterodimer Protein, His Tag&Tag Free (Cat. No. IT3-M52W3) is more than 90% and the molecular weight of this protein is around 195-240 kDa verified by SEC-MALS.

## Bioactivity-ELISA



Immobilized Human Vitronectin Protein, Tag Free (Cat. No. VIN-H5214) at 5 µg/mL (100 µL/well) can bind Mouse ITGAV&ITGB3 Heterodimer Protein, His Tag&Tag Free (Cat. No. IT3-M52W3) with a linear range of 0.02-0.313 µg/mL (QC tested).

## Background

Integrin alpha-V/beta-3 (ITGAV:ITGB3) is a receptor for cytotactin, fibronectin, laminin, matrix metalloproteinase-2, osteopontin, osteomodulin, prothrombin, thrombospondin, vitronectin and von Willebrand factor. Integrins alpha-IIb/beta-3 and alpha-V/beta-3 recognize the sequence R-G-D in a wide array of ligands. Also, Integrin alpha-V/beta-3 acts as a receptor for herpes virus 8/HHV-8, coxsackievirus A9, Hantaan virus, cytomegalovirus/HHV-5, human metapneumovirus, human parechovirus 1 and west nile virus. Furthermore, in case of HIV-1 infection, the interaction with extracellular viral Tat protein seems to enhance angiogenesis in Kaposi's sarcoma lesions.

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