

Biotinylated Cynomolgus Integrin alpha V beta 3 (ITGAV&ITGB3) Heterodimer Protein,

His,Avitag™&Tag Free (MALS verified)

Catalog # IT3-C82W3



BIOSYSTEMS
Acro

Synonym

Integrin alpha V beta 3, ITGAV&ITGB3

Source

Biotinylated Cynomolgus ITGAV&ITGB3 Heterodimer Protein, His,Avitag&Tag Free (IT3-C82W3) is expressed from human 293 cells (HEK293). It contains AA Phe 31 - Pro 993 | Gly 27 - Asp 718 (Accession # A0A2K5WCD3-1 | A0A2K5WYN9).

Predicted N-terminus: Phe 31 | Gly 27

Molecular Characterization

ITGAV (Phe 31 - Pro 993) A0A2K5WCD3-1	Acidic Tail	Poly-his	Avi
ITGB3 (Gly 27 - Asp 718) A0A2K5WYN9	Basic Tail		

The protein has a calculated MW of 115.2 kDa | 81.8 kDa. The protein migrates as 95-100 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 dimer.

Labeling

Biotinylation of this product is performed using Avitag™ technology. Briefly, the single lysine residue in the Avitag is enzymatically labeled with biotin.

Protein Ratio

Passed as determined by the HABA assay / binding ELISA.

Endotoxin

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

Purity

>90% 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.

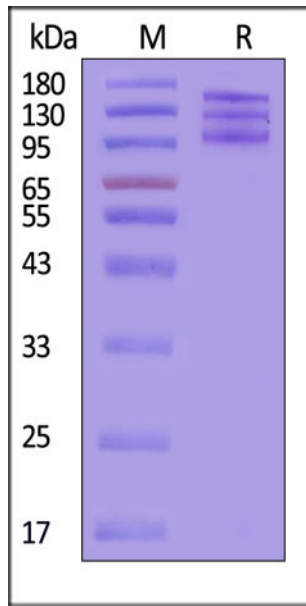
This product is stable after storage at:

- -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

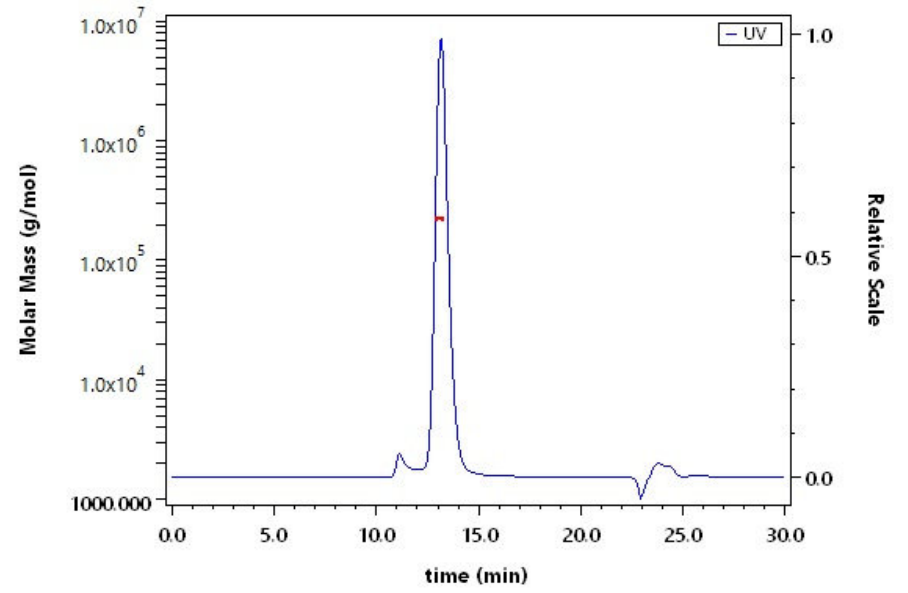
- [QMS\(ISO, GMP\)](#)
- [Quality Advantages](#)
- [Quality Control Process](#)

SDS-PAGE



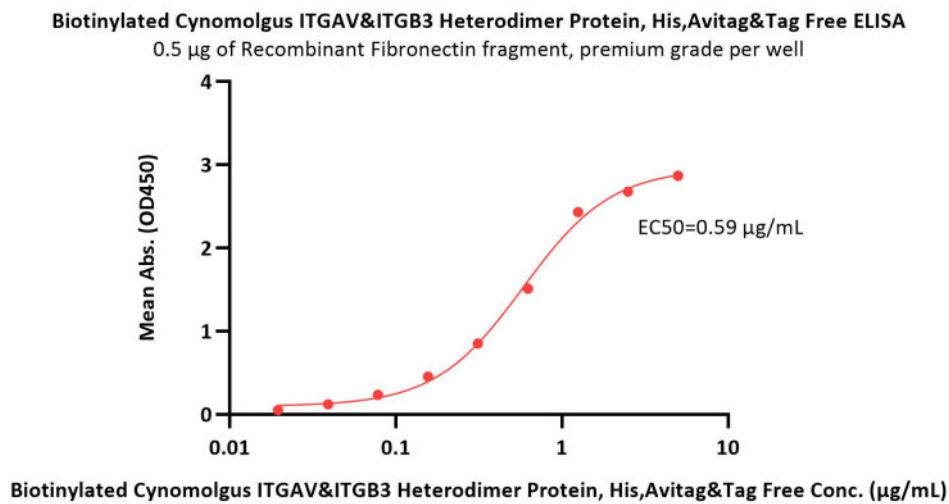
Biotinylated Cynomolgus ITGAV&ITGB3 Heterodimer Protein, His,Avitag&Tag Free on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 90% (With [Star Ribbon Pre-stained Protein Marker](#)).

SEC-MALS



The purity of Biotinylated Cynomolgus ITGAV&ITGB3 Heterodimer Protein, His,Avitag&Tag Free (Cat. No. IT3-C82W3) is more than 90% and the molecular weight of this protein is around 215-245 kDa verified by SEC-MALS.

Bioactivity-ELISA



Immobilized Recombinant Fibronectin fragment, premium grade (Cat. No. FIN-H5116) at 5 µg/mL (100 µL/well) can bind Biotinylated Cynomolgus ITGAV&ITGB3 Heterodimer Protein, His,Avitag&Tag Free (Cat. No. IT3-C82W3) with a linear range of 0.02-1.25 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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