

**Synonym**

Integrin alpha V beta 5,ITGAV&amp;ITGB5

**Source**

Cynomolgus Integrin alpha V beta 5 (ITGAV&ITGB5) Heterodimer Protein, His Tag&Tag Free(IT5-C52W3) is expressed from human 293 cells (HEK293). It contains AA Phe 31 - Pro 993 & Leu 25 - Asn 719 (Accession #

[A0A2K5WCD3-1](#) & [A0A2K5UEB4](#) ).

Predicted N-terminus: Phe 31 & Leu 25

**Molecular Characterization**

ITGAV (Phe 31 - Pro 993) A0A2K5WCD3-1	Acidic Tail	Poly-his
ITGB5 (Leu 25 - Asn 719) A0A2K5UEB4	Basic Tail	

Cynomolgus Integrin alpha V beta 5 (ITGAV&ITGB5) Heterodimer Protein, His Tag&Tag Free, produced by co-expression of ITGAV and ITGB5, has a calculated MW of 113.1 kDa (ITGAV) and 81.8 kDa (ITGB5). The protein migrates as 80-90 kDa,120-130 kDa 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.

**Purity**

>90% as determined by SDS-PAGE.

**Formulation**

Lyophilized from 0.22 µm filtered solution in 50 mM Tris, 150 mM NaCl, PH 7.5 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.*

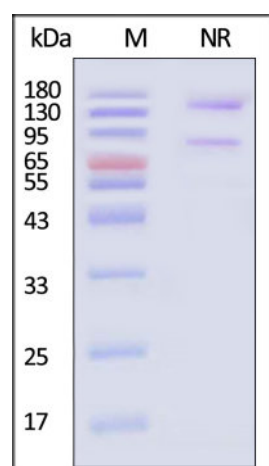
**Storage**

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.

**SDS-PAGE**

Cynomolgus Integrin alpha V beta 5 (ITGAV&ITGB5) 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](#)).

**Background**

Integrin alpha V beta 5 (ITGAV & ITGB5) is expressed on a wide variety of cell types including keratinocytes, fibroblasts, adhesive monocytes, embryonic stem cells, and select endothelium and epithelium. ITGAV & ITGB5 binds ligands containing an RGD motif, notably vitronectin. Growth factors that increase PKC activity, such as VEGF or TGF alpha, promote ITGAV & ITGB5-mediated angiogenesis while alpha V beta 3, which may be expressed in the same cell, responds to

FGF-basic and TNF alpha. An inhibitor of both down regulates tumor angiogenesis. During lung inflammation, up regulation of ITGAV & ITGB5 on myofibroblasts or infiltrating lymphocytes may contribute to fibrosis by freeing TGF beta from latency.

### **Clinical and Translational Updates**

Please contact us via [TechSupport@acrobiosystems.com](mailto:TechSupport@acrobiosystems.com) if you have any question on this product.