



Synonym

Integrin alpha 6 beta 4, ITGA6&ITGB4

Source

Cynomolgus ITGA6&ITGB4 Heterodimer Protein, His Tag&Tag Free (IN4-C52W3) is expressed from human 293 cells (HEK293). It contains AA Phe 24 - Gly 1012 (ITGA6) & Asn 28 - Ser 711 (ITGB4) (Accession # [A0A2K5WLQ4](#) (ITGA6) & [A0A2K5TWI7](#) (ITGB4)).
Predicted N-terminus: Phe 24 (ITGA6) & Asn 28 (ITGB4)

Molecular Characterization

ITGA6 (Phe 24 - Gly 1012) A0A2K5WLQ4	Acidic Tail	Poly-his
ITGB4 (Asn 28 - Ser 711) A0A2K5TWI7	Basic Tail	

[Other Tags and Version](#) [Biotin & Other Labeled Version](#)

Cynomolgus ITGA6&ITGB4 Heterodimer Protein, His Tag&Tag Free, produced by co-expression of ITGA6 and ITGB4, has a calculated MW of 116.8 kDa (ITGA6) & 82 kDa (ITGB4). Subunit ITGA6 is fused with flag tag at the C-terminus and subunit ITGB4 contains no tag. The protein migrates as 110-130 kDa (ITGA6) and 90-95 kDa (ITGB4) 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

>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, 0.2 M Arginine, 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:

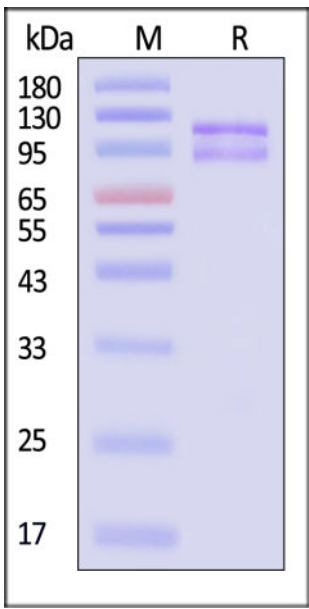
- -20°C to -70°C for 12 months in lyophilized state;
- -70°C for 3 months under sterile conditions after reconstitution.

ACRO Quality Management System

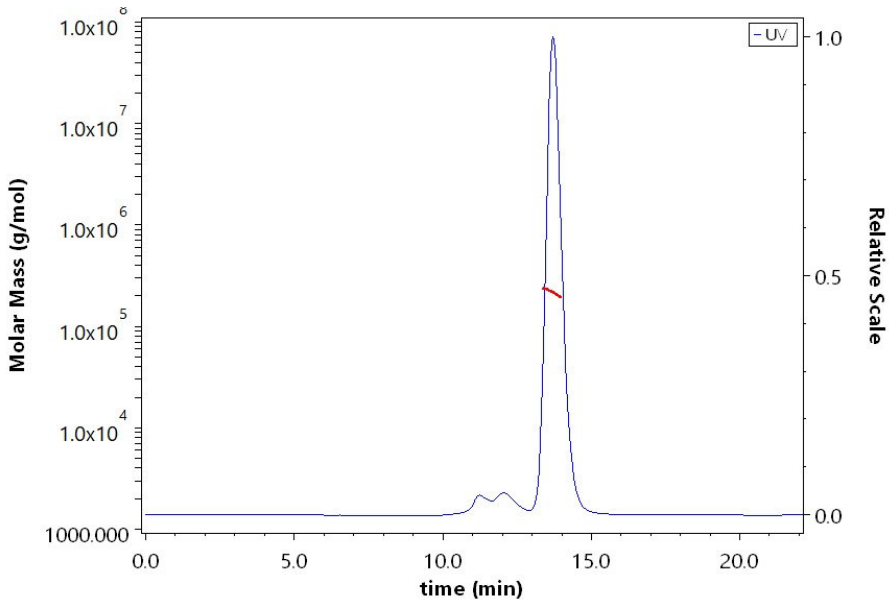
- [QMS\(ISO, GMP\)](#)
- [Quality Advantages](#)
- [Quality Control Process](#)

SDS-PAGE

SEC-MALS

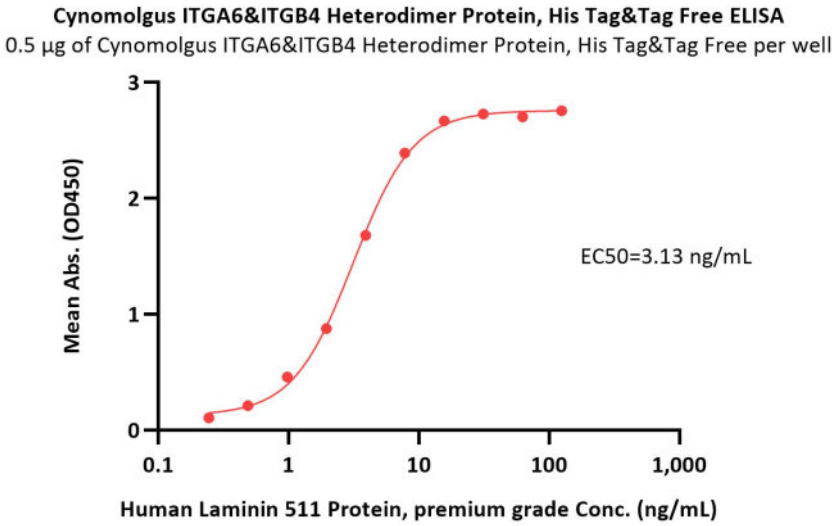


Cynomolgus ITGA6&ITGB4 Heterodimer Protein, His Tag&Tag Free on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 90% (With [Star Ribbon Pre-stained Protein Marker](#)).



The purity of Cynomolgus ITGA6&ITGB4 Heterodimer Protein, His Tag&Tag Free (Cat. No. IN4-C52W3) is more than 90% and the molecular weight of this protein is around 190-240 kDa verified by SEC-MALS.

Bioactivity-ELISA



Immobilized Cynomolgus ITGA6&ITGB4 Heterodimer Protein, His Tag&Tag Free (Cat. No. IN4-C52W3) at 5 µg/mL (100 µL/well) can bind Human Laminin 511 Protein, premium grade (Cat. No. LA8-H5283L) with a linear range of 0.2-8 ng/mL (QC tested).

Background

Integrin $\alpha 6 \beta 4$ is a key laminin receptor predominantly found in stratified squamous epithelia, especially localized to hemidesmosomes in the basal epidermal layer, where it plays a crucial role in cell-basement membrane adhesion, regulation of keratinocyte motility and polarity, and contributes to the structure of hemidesmosomal plaques, distinguishing it from other integrins.

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