

# Cynomolgus Integrin alpha 4 beta 7 (ITGA4&ITGB7) Heterodimer Protein, His Tag&Tag Free (MALS verified)

Catalog # IT7-C52W4



BIOSYSTEMS  
**Acro**  
Surprise Inside!

## Synonym

Integrin alpha 4 beta 7, ITGA4&ITGB7

## Source

Cynomolgus ITGA4&ITGB7 Heterodimer Protein, His Tag&Tag Free (IT7-C52W4) is expressed from human 293 cells (HEK293). It contains AA Tyr 34-Thr 977 (ITGA4) & Glu 20 - His 723 (ITGB7) (Accession # [XP\\_005573683.2](#) (ITGA4) & [XP\\_005571028.2](#) (ITGB7)).

Predicted N-terminus: Tyr 34 (ITGA4) & Glu 20 (ITGB7)

## Molecular Characterization

Cynomolgus ITGA4&ITGB7 Heterodimer Protein, His Tag&Tag Free, produced by co-expression of ITGA4 and ITGB7, has a calculated MW of 111.6 kDa (ITGA4) & 81.6 kDa (ITGB7). Subunit ITGA4 is fused with an acidic tail at the C-terminus and followed by a polyhistidine tag and subunit ITGB7 contains no tag but a basic tail at the C-terminus. The protein migrates as 60-70 kDa, 95-120 kDa (ITGB7) and 130-150 kDa (ITGA4) 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.

>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

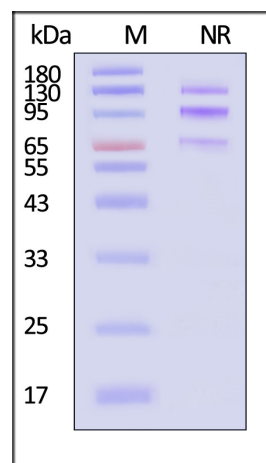
For long term storage, the product should be stored at lyophilized state at -20°C or lower.

*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.

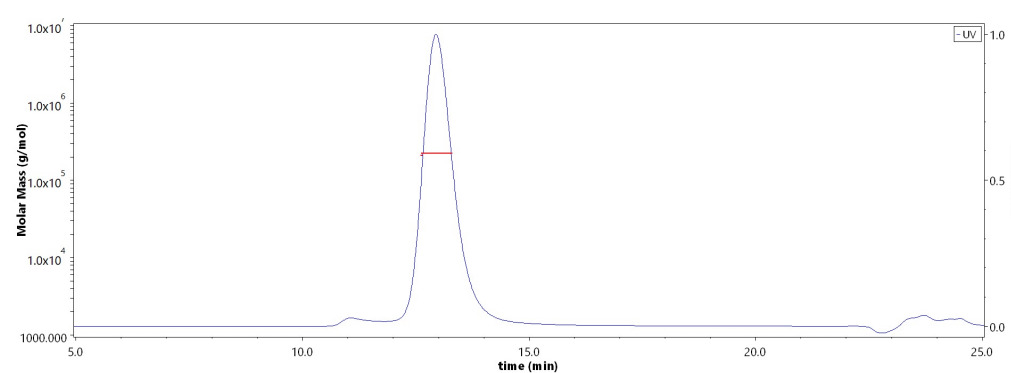
## SDS-PAGE



Cynomolgus ITGA4&ITGB7 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](#)).

## Bioactivity-ELISA

## SEC-MALS



The purity of Cynomolgus ITGA4&ITGB7 Heterodimer Protein, His Tag&Tag Free (Cat. No. IT7-C52W4) is more than 90% and the molecular weight of this protein is around 200-250 kDa verified by SEC-MALS.

[Report](#)

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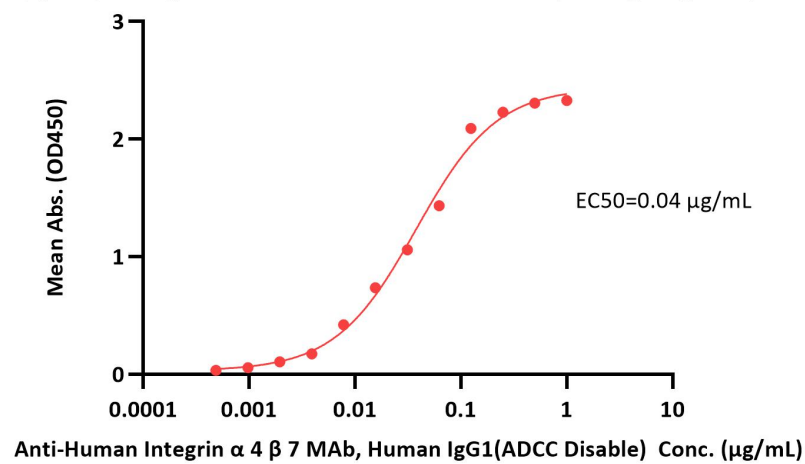


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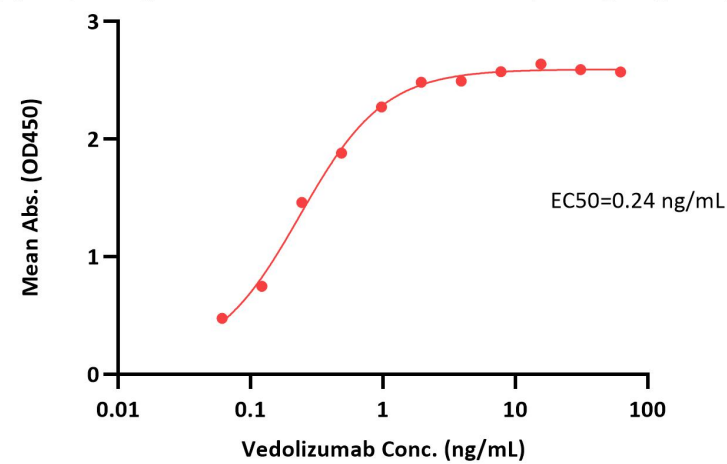


**Cynomolgus ITGA4&ITGB7 Heterodimer Protein, His Tag&Tag Free ELISA**  
0.1 µg of Cynomolgus ITGA4&ITGB7 Heterodimer Protein, His Tag&Tag Free per well



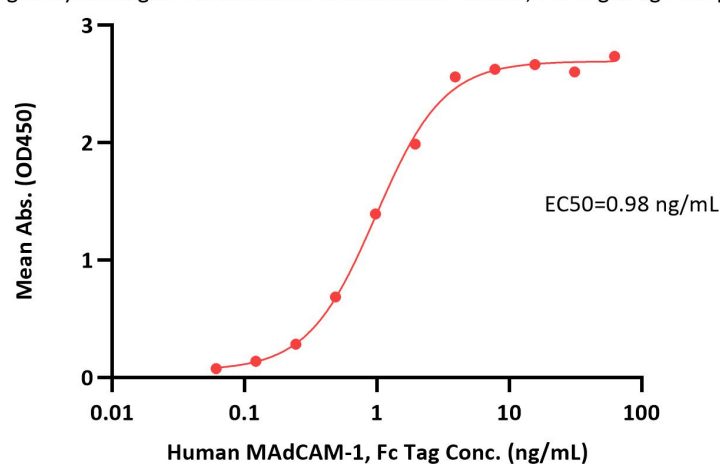
Immobilized Cynomolgus ITGA4&ITGB7 Heterodimer Protein, His Tag&Tag Free (Cat. No. IT7-C52W4) at 1 µg/mL (100 µL/well) can bind Anti-Human Integrin  $\alpha$  4  $\beta$  7 MAb, Human IgG1(ADCC Disable) with a linear range of 0.0005-0.125 µg/mL (QC tested).

**Cynomolgus ITGA4&ITGB7 Heterodimer Protein, His Tag&Tag Free ELISA**  
0.5 µg of Cynomolgus ITGA4&ITGB7 Heterodimer Protein, His Tag&Tag Free per well



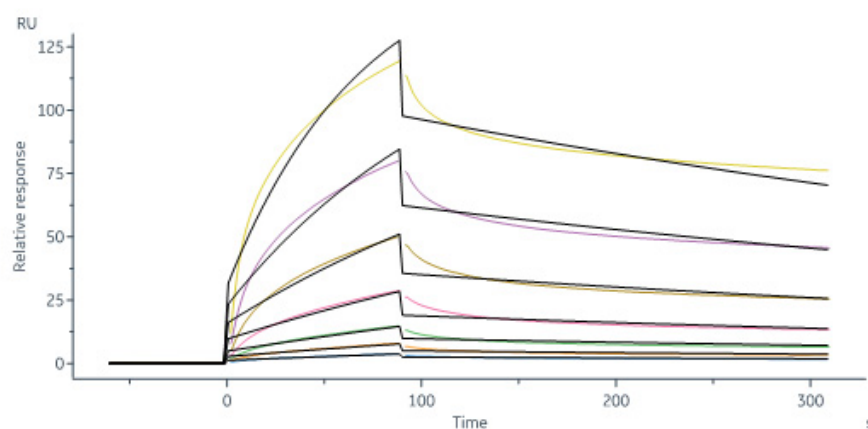
Immobilized Cynomolgus ITGA4&ITGB7 Heterodimer Protein, His Tag&Tag Free (Cat. No. IT7-C52W4) at 5 µg/mL (100 µL/well) can bind Vedolizumab with a linear range of 0.06-1 ng/mL (Routinely tested).

**Cynomolgus ITGA4&ITGB7 Heterodimer Protein, His Tag&Tag Free ELISA**  
0.5 µg of Cynomolgus ITGA4&ITGB7 Heterodimer Protein, His Tag&Tag Free per well



Immobilized Cynomolgus ITGA4&ITGB7 Heterodimer Protein, His Tag&Tag Free (Cat. No. IT7-C52W4) at 5 µg/mL (100 µL/well) can bind Human MAdCAM-1, Fc Tag (Cat. No. MAM-H5253) with a linear range of 0.06-4 ng/mL (Routinely tested).

## Bioactivity-SPR



Human MAdCAM-1, Fc Tag (Cat. No. MAM-H5253) captured on Protein A Chip can bind Cynomolgus ITGA4&ITGB7 Heterodimer Protein, His Tag&Tag Free (Cat. No. IT7-C52W4) with an affinity constant of 5.77 nM as determined in a SPR assay (Biacore 8K) (Routinely tested).

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## Background

Integrin alpha 4 beta 7 is an integrin family adhesion receptor that shares subunits with alpha 4 beta 1 (VLA4) and the E-Cadherin receptor, alpha E beta 7 . Integrin alpha 4 beta 7, which is critical for homing to intestinal mucosa, is induced during T cell activation in Peyer's patches or mesenteric lymph nodes. Its expression requires signals from local dendritic and stromal cells, including secreted retinoic acid. The HIV-1 envelope protein gp120 binds to the active form of Integrin alpha 4 beta 7, and this may or may not account for the concentration of HIV-1 virus in the gut-associated lymphoid tissue (GALT). Integrin alpha 4 beta 7 may also be involved in lymphocyte trafficking in acute intestinal graft vs. host disease (GVHD).

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4/21/2025