

# Cynomolgus Integrin alpha 8 beta 1 (ITGA8&ITGB1) Heterodimer Protein, His Tag&Tag Free (MALS verified)

Catalog # IT1-C52Wa



## Synonym

Integrin alpha 8 beta 1, ITGA8&ITGB1

## Source

Cynomolgus ITGA8&ITGB1 Heterodimer Protein, His Tag&Tag Free (IT1-C52Wa) is expressed from human 293 cells (HEK293). It contains AA Phe 39 - Leu 1012 (ITGA8) & Gln 161 - Asp 868 (ITGB1) (Accession # [XP\\_005564768.3](#) (ITGA8) & [A0A7N9D0D7](#) (ITGB1)).

Predicted N-terminus: Phe 39 (ITGA8) & Gln 161 (ITGB1)

## Molecular Characterization

ITGA8 (Phe 39 - Leu 1012) XP_005564768.3	Acidic Tail	Poly-his
ITGB1 (Gln 161 - Asp 868) A0A7N9D0D7	Basic Tail	

Cynomolgus ITGA8&ITGB1 Heterodimer Protein, His Tag&Tag Free, produced by co-expression of ITGA8 and ITGB1, has a calculated MW of 114.6 kDa (ITGA8) & 83.6 kDa (ITGB1). Subunit ITGA8 is fused with an acidic tail at the C-terminus and followed by a polyhistidine tag and subunit ITGB1 contains no tag but a basic tail at the C-terminus. The protein migrates as 130-150 kDa (ITGA8) and 100-125 kDa (ITGB1) 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 HEPES, 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.**

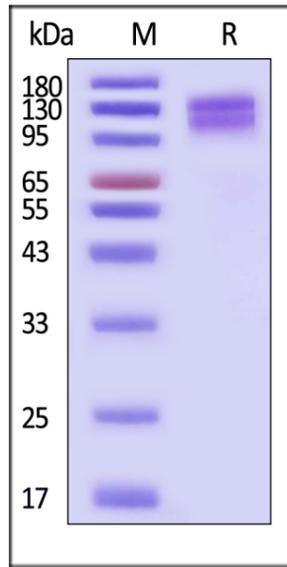
This product is stable after storage at:

- -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

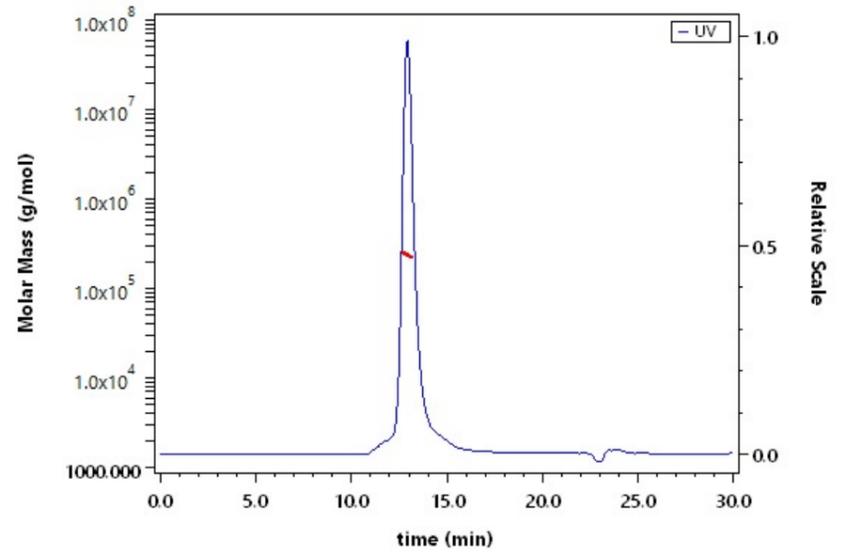
- [QMS\(ISO, GMP\)](#)
- [Quality Advantages](#)
- [Quality Control Process](#)

## SDS-PAGE



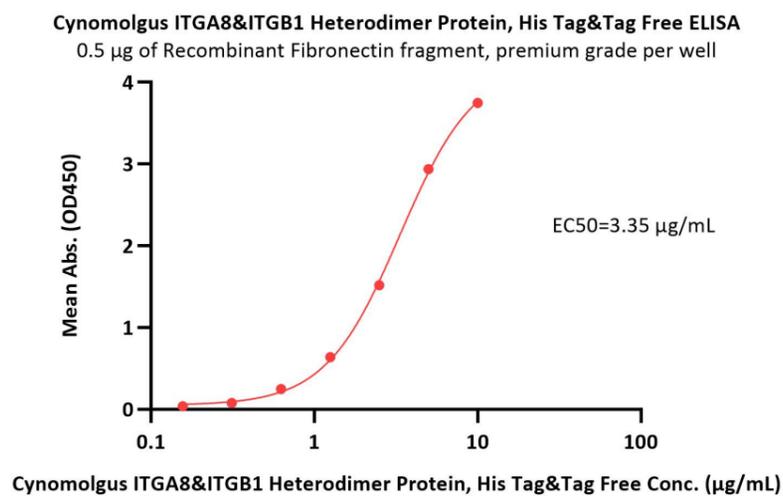
Cynomolgus ITGA8&ITGB1 Heterodimer Protein, His Tag&Tag Free on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 95% (With [Star Ribbon Pre-stained Protein Marker](#)).

## SEC-MALS



The purity of Cynomolgus ITGA8&ITGB1 Heterodimer Protein, His Tag&Tag Free (Cat. No. IT1-C52Wa) is more than 90% and the molecular weight of this protein is around 210-245 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 Cynomolgus ITGA8&ITGB1 Heterodimer Protein, His Tag&Tag Free (Cat. No. IT1-C52Wa) with a linear range of 0.156-10 µg/mL (QC tested).

## Background

Human Integrin alpha 8 beta 1 Heterodimer Protein consists of ITGA8 and ITGB1. The integrin alpha 8 subunit, isolated by low stringency hybridization, is a novel integrin subunit that associates with beta 1. The recently identified alpha 8 integrin subunit associates with beta 1 and is predominantly expressed in smooth muscle and other contractile cells in adult tissues, and in mesenchymal and neural cells during development. In addition, Integrin alpha 8 beta 1 is a receptor for fibronectin and can promote attachment, cell spreading, and neurite outgrowth on fibronectin.

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