

# Rat ITGA8 & ITGB1 Heterodimer Protein, His Tag&Tag Free

Catalog # IT1-R53W6



## Synonym

Integrin alpha 8 beta 1, ITGA8&ITGB1

## Source

Rat ITGA8 & ITGB1 Heterodimer Protein, His Tag&Tag Free (IT1-R53W6) is expressed from CHO cells. It contains AA Phe 38 - Pro 1034 (ITGA8) & Gln 21 - Asp 729 (ITGB1) (Accession # [F7F1E3](#) (ITGA8) & [P49134](#) (ITGB1)).  
Predicted N-terminus: Phe 38 (ITGA8) & Gln 21 (ITGB1)

## Molecular Characterization

ITGA8 (Phe 38 - Pro 1034) F7F1E3	Acidic Tail	His
ITGB1 (Gln 21 - Asp 729) P49134	Basic Tail	

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

Rat ITGA8 & ITGB1 Heterodimer Protein, His Tag&Tag Free, produced by co-expression of ITGA8 and ITGB1, has a calculated MW of 117.2 kDa (ITGA8) and 83.7 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 65-150 kDa (ITGA8) and 50-55 kDa (ITGB1) 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

>80% as determined by SDS-PAGE.

## 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

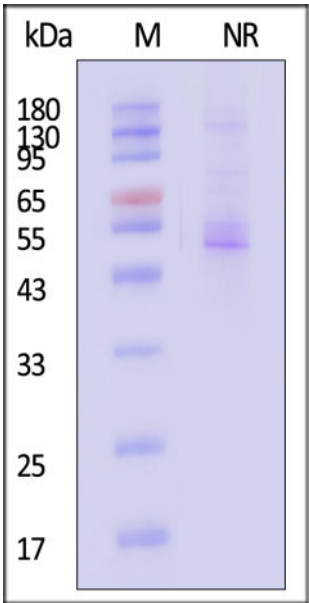
For long term storage, the product should be stored at lyophilized state at -20°C or lower.  
**Please avoid repeated freeze-thaw cycles.**  
This product is stable after storage at:

- -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



Rat ITGA8 & ITGB1 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 80% (With [Star Ribbon Pre-stained Protein Marker](#)).

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## 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.

