



### Synonym

Integrin alpha 8 beta 1,ITGA8&ITGB1

### Source

Human ITGA8&ITGB1 Heterodimer Protein, His Tag&Tag Free(IT1-H52W9) is expressed from human 293 cells (HEK293). It contains AA Phe 39 - Leu 1012 (ITGA8) & Gln 21 - Asp 728 (ITGB1) (Accession # [P53708-1](#) (ITGA8) & [P05556-1](#) (ITGB1)).

Predicted N-terminus: Phe 39 (ITGA8) & Gln 21 (ITGB1)

### Molecular Characterization

ITGA8 (Phe 39 - Leu 1012) P53708-1	Acidic Tail	His
ITGB1 (Gln 21 - Asp 728) P05556-1	Basic Tail	

Human 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) 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 non-reducing (NR) protein migrates as 140-170 kDa (ITGA8) and 100-115 kDa (ITGB1) when calibrated against [Star Ribbon Pre-stained Protein Marker](#) respectively due to glycosylation.

### Endotoxin

Less than 1.0 EU per µg by the LAL method.

### Purity

>95% 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

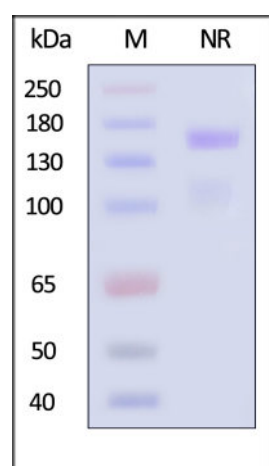
For long term storage, the product should be stored at lyophilized state at -20°C or lower.

*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.

### SDS-PAGE

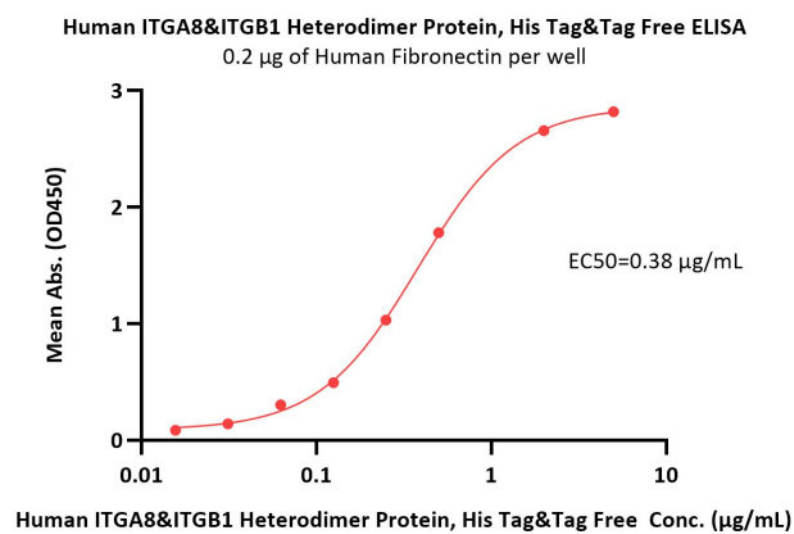


Human ITGA8&ITGB1 Heterodimer Protein, His Tag&Tag Free on SDS-PAGE under non-reducing (NR) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 95% (With [Star Ribbon Pre-stained Protein Marker](#)).

### Bioactivity-ELISA

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and more!





Immobilized Human Fibronectin at 2 µg/mL (100 µL/well) can bind Human ITGA8&ITGB1 Heterodimer Protein, His Tag&Tag Free (Cat. No. IT1-H52W9) with a linear range of 0.016-0.5 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.

## Clinical and Translational Updates

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