



## Synonym

Integrin alpha 11 beta 1,ITGA11&ITGB1

## Source

Human ITGA11&ITGB1 Heterodimer Protein, His Tag&Tag Free(IT1-H52W3) is expressed from human 293 cells (HEK293). It contains AA Phe 23 - Pro 1141 (ITGA11) & Gln 21-Asp 728 (ITGB1) (Accession # [Q9UKX5-1](#) (L524R) (ITGA11) & [P05556-1](#) (ITGB1)).

Predicted N-terminus: Phe 23 (ITGA11) & Gln 21 (ITGB1)

## Molecular Characterization



Human ITGA11&ITGB1 Heterodimer Protein, His Tag&Tag Free, produced by co-expression of ITGA11 and ITGB1, has a calculated MW of 131.6 kDa (ITGA11) and 82.7 kDa (ITGB1). Subunit ITGA11 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 reducing (R) protein migrates as 150-165 kDa (ITGA11) and 90-120 kDa (ITGB1) respectively due to glycosylation.

## Endotoxin

Less than 1.0 EU per µg by the LAL method.

## Purity

>90% 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

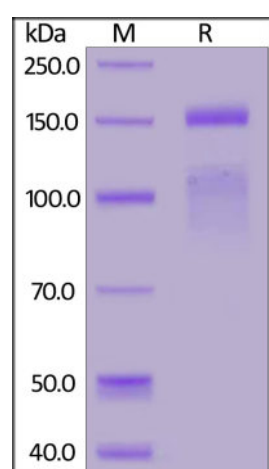
For long term storage, the product should be stored at lyophilized state at -20°C or lower.

*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

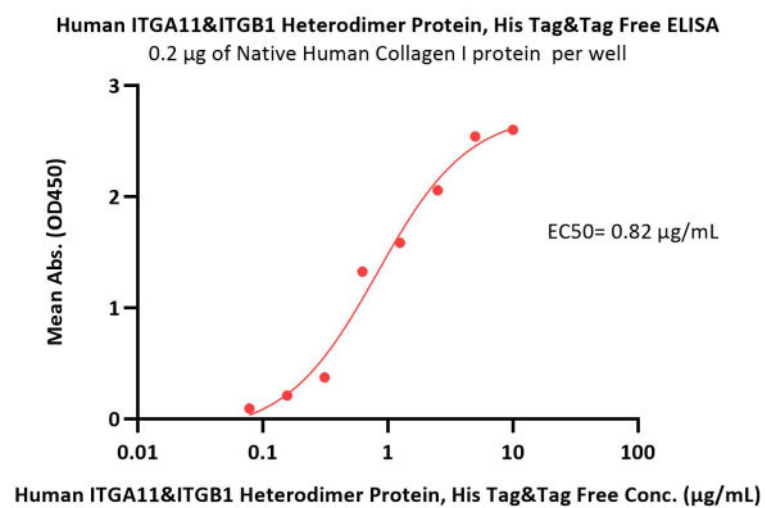


Human ITGA11&ITGB1 Heterodimer Protein, His Tag&Tag Free on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 90%.

## Bioactivity-ELISA

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Immobilized Human Collagen I protein at 2 µg/mL (100 µL/well) can bind Human ITGA11&ITGB1 Heterodimer Protein, His Tag&Tag Free (Cat. No. IT1-H52W3) with a linear range of 0.078-1.25 µg/mL (QC tested).

## Background

Integrin alpha 11 beta 1 is a receptor for collagen. The alpha11 cDNA encodes a mature protein with a large 1120-residue extracellular domain that contains an I-domain of 207 residues and is linked by a transmembrane domain to a short cytoplasmic domain of 24 amino acids. The deduced alpha11 protein shows the typical structural features of integrin alpha-subunits and is similar to a distinct group of alpha-subunits from collagen-binding integrins.

## Clinical and Translational Updates

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