

# Recombinant Human Integrin alpha 5 beta 1 (ITGA5&ITGB1) Heterodimer Protein

Catalog No.: RP02426 **Recombinant**

## Sequence Information

Species	Gene ID	Swiss Prot
Human	3678&3688	P08648&P05556

### Tags

C-His&Avi

### Synonyms

Integrin alpha 5 beta 1; VLA-5

## Product Information

### Source

HEK293 cells

### Purification

≥ 95 % as determined by Tris-Bis PAGE; ≥ 95 % as determined by HPLC.

### Calculated MW Observed MW

111.8 kDa(ITGA5), 83.2 kDa(ITGB1) 100-140 kDa

### Endotoxin

< 1 EU/μg of the protein by LAL method.

### Formulation

Lyophilized from a 0.22 μm filtered solution of PBS, pH 7.4.

### Reconstitution

Centrifuge the tube before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stabilizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

## Contact

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## Background

### Basic Information

#### Description

Recombinant Human Integrin alpha 5 beta 1 (ITGA5&ITGB1) Heterodimer Protein is produced by Expi293 expression system. The target protein is expressed with sequence (Phe42-Tyr995(P08648) acidic tail& Gln21-His728(P05556) basic tail ) of Human Integrin alpha 5 beta 1 (ITGA5&ITGB1) Heterodimer fused with His tag and Avi tag at the C-terminal.

#### Bio-Activity

Immobilized Human ITGA5&ITGB1, His Tag at 0.5 μg/mL (100 μL/Well). Dose response curve for Anti-ITGA5&ITGB1 Ab. with the EC<sub>50</sub> of 35.4 ng/mL determined by ELISA.

#### Shipping

The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.

#### Storage

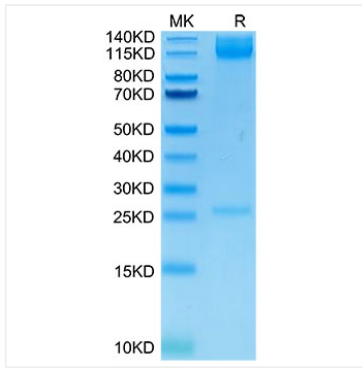
Store at -20°C. Store the lyophilized protein at -20°C to -80 °C up to 1 year from the date of receipt. After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week. Avoid repeated freeze/thaw cycles.

#### Operational Notes

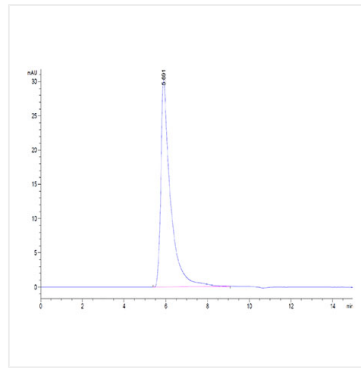
For your safety and health, please wear a lab coat and disposable gloves for handling.



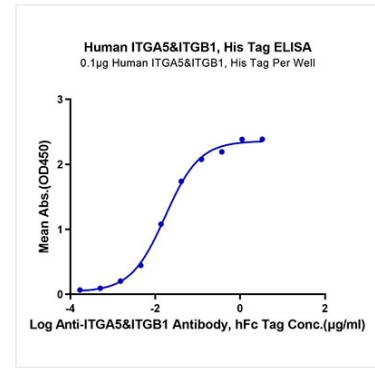
## Validation Data



Recombinant Human Integrin alpha 5 beta 1 (ITGA5&ITGB1) Heterodimer Protein was determined by Tris-Bis PAGE under reducing conditions with Coomassie Blue.



The purity of Human ITGA5&ITGB1 is greater than 95% as determined by SEC-HPLC.



Immobilized Human ITGA5&ITGB1, His Tag at 1µg/ml (100µl/well) on the plate. Dose response curve for Anti-ITGA5&ITGB1 Antibody, hFc Tag with the EC<sub>50</sub> of 17.2ng/ml determined by ELISA.