

# Human Integrin alpha 2B beta 3 (ITGA2B&ITGB3) Heterodimer Protein

Cat. No. ITG-HM12B

## Description

|                         |  |
|-------------------------|--|
| <b>Source</b>           | Recombinant Human Integrin alpha 2B beta 3 (ITGA2B&ITGB3) Heterodimer Protein is expressed from HEK293 with His tag at the C-Terminus.<br>It contains Leu32-Arg993(ITGA2B) acidic tail & GLy27-Asp718(ITGB3) basic tail. |
| <b>Accession</b>        | P08514-1(ITGA2B)&P05106-1(ITGB3)   |
| <b>Molecular Weight</b> | The protein has a predicted MW of 110.5 kDa (ITGA2B)&81.3 kDa (ITGB3). Due to glycosylation, the protein migrates to 95-115 kDa based on Bis-Tris PAGE result.   |
| <b>Endotoxin</b>        | Less than 1EU per µg by the LAL method.  |
| <b>Purity</b>           | > 95% as determined by Bis-Tris PAGE<br>> 95% as determined by HPLC  |

## Formulation and Storage

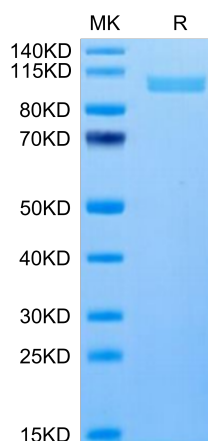
|                       |   |
|-----------------------|---|
| <b>Formulation</b>    | Lyophilized from 0.22µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.  |
| <b>Reconstitution</b> | Centrifuge the tube before opening. Reconstituting to a concentration more than 100 µg/ml is recommended. Dissolve the lyophilized protein in distilled water.  |
| <b>Storage</b>        | -20 to -80°C for 12 months as supplied from date of receipt. -80°C for 3 months after reconstitution. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles. |

## Background

Glanzmann thrombasthenia (GT) is characterized by mucocutaneous bleeding due to platelets that fail to aggregate in response to physiologic stimuli. GT, a rare inherited disease, is caused by quantitative or qualitative deficiencies of  $\alpha\text{IIb}\beta\text{3}$ , an integrin receptor for adhesive proteins. Coded by the ITGA2B and ITGB3 genes,  $\alpha\text{IIb}\beta\text{3}$  mediates platelet-to-platelet attachment, aggregation and clot retraction.

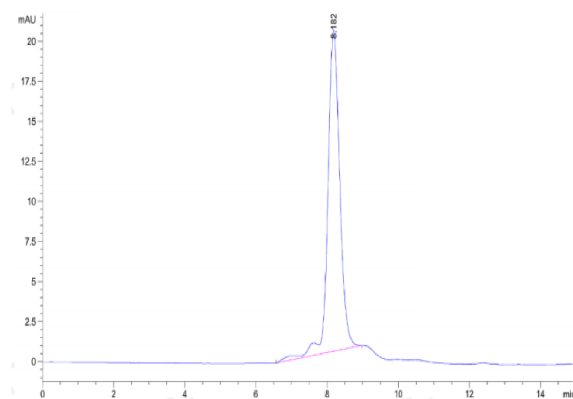
## Assay Data

### Bis-Tris PAGE



Human ITGA2B&ITGB3 on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.

### SEC-HPLC

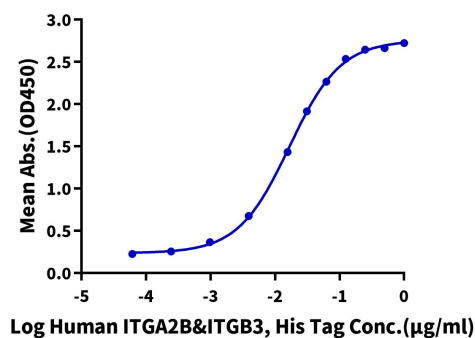


The purity of Human ITGA2B&ITGB3 is greater than 95% as determined by SEC-HPLC.

Assay Data

ELISA Data

Human ITGA2B&ITGB3, His Tag ELISA  
0.1µg Abciximab Per Well



Immobilized Abciximab at 1µg/ml (100µl/well) on the plate. Dose response curve for Human ITGA2B&ITGB3, His Tag with the EC50 of 16.7ng/ml determined by ELISA.