

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

Catalog No.: RP03507 **Recombinant**

Sequence Information

Species	Gene ID	Swiss Prot
Human	3674□3690	P08514-1(ITGA2B)&P05106-1(ITGB3)

Tags

C-His

Synonyms

α2Bβ3; ITGA2B&ITGB3; ITGA2B; ITGB3

Product Information

Source	Purification
HEK293 cells	> 95% as determined by HPLC

Calculated MW	Observed MW
110.5 kDa (ITGA2B)&81.3 kDa (ITGB3)	95-115 kDa

Endotoxin

<1EU/μg of the protein by LAL method.

Formulation

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

Reconstitution

Centrifuge the vial 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.

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 αIIbβ3, an integrin receptor for adhesive proteins. Coded by the ITGA2B and ITGB3 genes, αIIbβ3 mediates platelet-to-platelet attachment, aggregation and clot retraction.

Basic Information

Description

Recombinant Human Integrin alpha 2B beta 3 (ITGA2B&ITGB3) Heterodimer Protein is expressed from HEK293 with His tag at the C-Terminus. It contains Leu32-Arg993(ITGA2B) acidic tail & GLy27-Asp718(ITGB3) basic tail [Accession | P08514-1(ITGA2B)&P05106-1(ITGB3)].

Bio-Activity

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.

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.

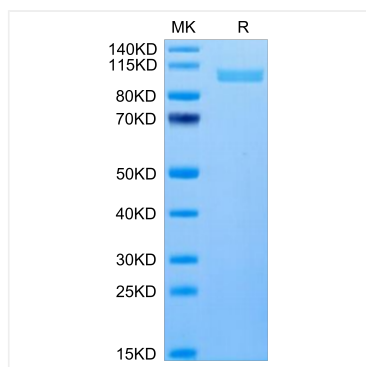
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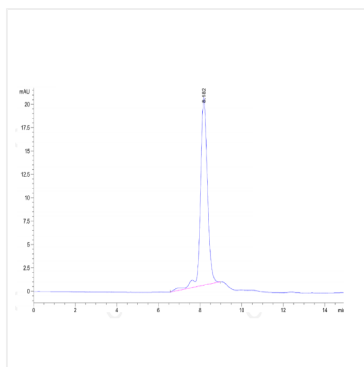
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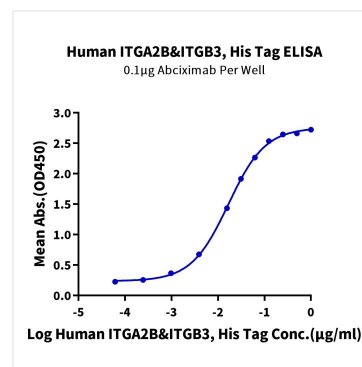
Validation Data



Recombinant Integrin alpha 2B beta 3 (ITGA2B&ITGB3) Heterodimer Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.



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



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.