

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

Cat. No. ITG-MM12B

Description

Source	Recombinant Mouse Integrin alpha 2B beta 3 (ITGA2B&ITGB3) Heterodimer Protein is expressed from HEK293 with His tag at the C-Terminus. It contains Leu32-Arg988 (ITGA2B) acidic tail and Glu26-Asp717 (ITGB3) basic tail.
Accession	Q9QUM0(ITGA2B)&O54890(ITGB3)
Molecular Weight	The protein has a predicted MW of 109.80 kDa (ITGA2B) and 80.80 kDa (ITGB3). Due to glycosylation, the protein migrates to 90-113 kDa based on Bis-Tris PAGE result.
Endotoxin	Less than 1EU per µg by the LAL method.
Purity	> 95% as determined by Bis-Tris PAGE > 90% as determined by HPLC

Formulation and Storage

Formulation	Lyophilized from 0.22µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 µg/ml is recommended. Dissolve the lyophilized protein in distilled water.
Storage	-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 αIIbβ3, an integrin receptor for adhesive proteins. Coded by the ITGA2B and ITGB3 genes, αIIbβ3 mediates platelet-to-platelet attachment, aggregation and clot retraction.

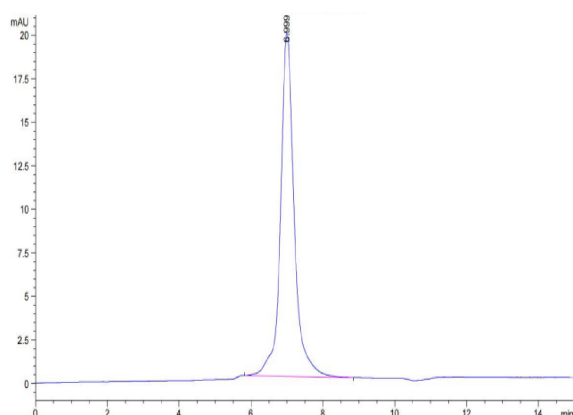
Assay Data

Bis-Tris PAGE



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

SEC-HPLC



The purity of Mouse ITGA2B&ITGB3 is greater than 90% as determined by SEC-HPLC.