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 & Glu26-Asp717(ITGB3) basic tail.
Accession	Q9QUM0(ITGA2B)&O54890(ITGB3)
Molecular Weight	The protein has a predicted MW of 109.80 kDa (ITGA2B)&80.80 kDa (ITGB3). Due to glycosylation, the protein migrates to 90-113 kDa based on Tris-Bis PAGE result.
Endotoxin	Less than 1EU per μg by the LAL method.
Purity	> 95% as determined by Tris-Bis PAGE
	> 95% as determined by HPLC

Formulation and Storage

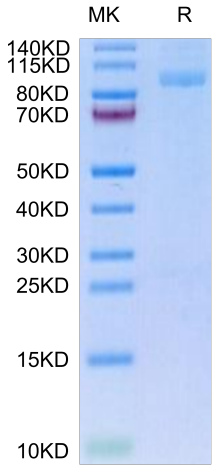
Formulation	Lyophilized from 0.22μm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 μg/ml is recommended. Dissolve the lyophilized protein in distilled water.
Storage	-20 to -80°C for 12 months as supplied from date of receipt.-20 to -80°C for 3-6 months in unopened state after reconstitution.2-8°C for 2-7 days 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

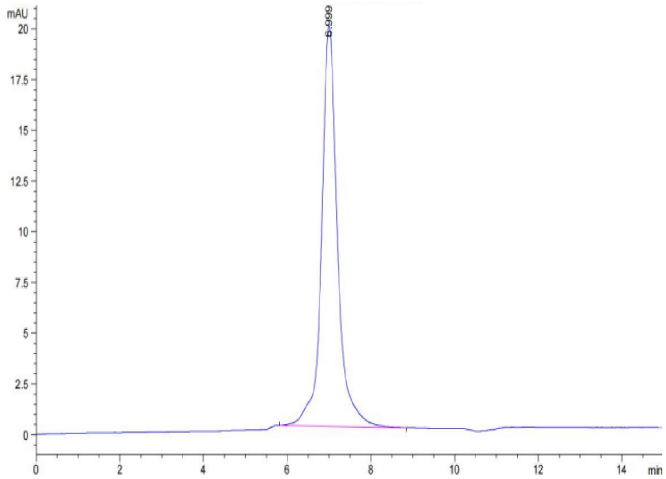
Tris-Bis PAGE



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

SEC-HPLC

Assay Data



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