Biotinylated Human Integrin alpha 2 beta 1 (ITGA2&ITGB1) Heterodimer Protein

Cat. No. ITG-HM4ABB

Description

Source	Recombinant Biotinylated Human Integrin alpha 2 beta 1 (ITGA2&ITGB1) Heterodimer Protein is expressed from HEK293 with His tag and Avi tag at the C-terminus.
	It contains Tyr30-Thr1132 (ITGA2) and Gln21-Asp728 (ITGB1).
Accession	P17301(ITGA2)&P05556-1(ITGB1)
Molecular Weight	The protein has a predicted MW of 128.45 kDa (ITGA2) and 83.19 kDa (ITGB1). Due to glycosylation, the protein migrates to 110-130 kDa and 140-160 kDa based on Bis-Tris PAGE result.
Endotoxin	Less than 0.1 EU per μg by the LAL method.
Purity	> 95% as determined by Bis-Tris PAGE
	> 95% as determined by HPLC

Formulation and Storage

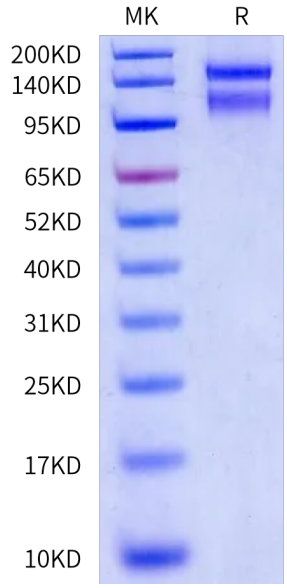
Formulation	Lyophilized from 0.22 μm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Dissolve the lyophilized protein in distilled water. Please refer to the Certificate of Analysis for detailed instructions.
Storage	-20 to -80°C for 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

The α2β1 integrin, also known as VLA-2, GPIa-IIa, CD49b, was first identified as an extracellular matrix receptor for collagens and/or laminins. It is now recognized that the α2β1 integrin serves as a receptor for many matrix and nonmatrix molecules. It plays a critical role in platelet function and homeostasis.

Assay Data

Bis-Tris PAGE



Biotinylated Human ITGA2&ITGB1 on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.

SEC-HPLC

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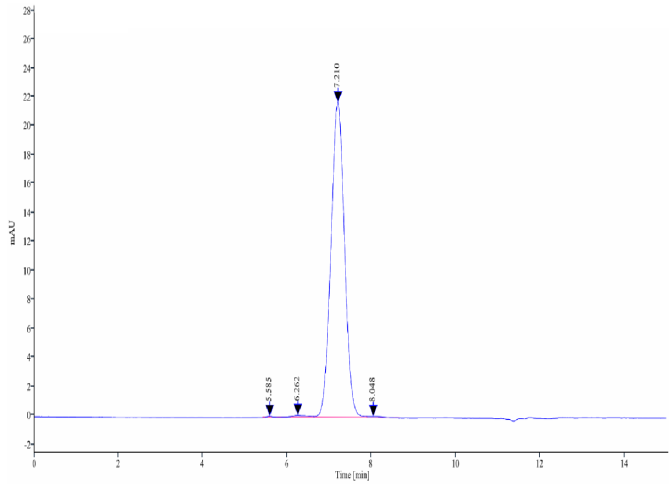
Assay Data



The purity of Biotinylated Human ITGA2&ITGB1 is greater than 95% as determined by SEC-HPLC.