

Mouse Integrin alpha 1 beta 1 (ITGA1&ITGB1) Heterodimer Protein, Ultra Low Endotoxin



Cat. No. ITG-MM1A1-UL

Description

Source	Recombinant Mouse Integrin alpha 1 beta 1 (ITGA1&ITGB1) Heterodimer Protein is expressed from HEK293 with His tag at the C-Terminus of ITGA1.
	It contains Phe29-Pro1141(ITGA1) acidic tail and Gln21-Asp728(ITGB1) basic tail.
Accession	Q3V3R4(ITGA1)&P09055-1(ITGB1)
Molecular Weight	The protein has a predicted MW of 129.00 kDa (ITGA1) & 82.80 kDa (ITGB1). Due to glycosylation, the protein migrates to 140-200 kDa (ITGA1) and 100-115 kDa (ITGB1) based on Bis-Tris PAGE result.
Endotoxin	Less than 0.01 EU per µg by the LAL method.
Purity	> 95% as determined by Bis-Tris PAGE
	> 95% as determined by HPLC

Formulation and Storage

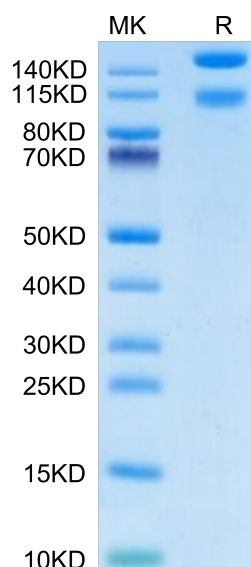
Formulation	Lyophilized from 0.22µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Dissolve the lyophilized protein in distilled water. Please refer to the Certificate of Analysis for detailed instructions.
Storage	-20 to -80°C for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

Integrin $\alpha 1 \beta 1$ is a heterodimer of the Integrin subunits alpha 1 and beta 1 and is one of four collagenbinding integrins, it preferentially binds Collagens I, IV, VI, XIII and XVI, but also binds Laminin. Integrin $\alpha 1 \beta 1$ is widely expressed in mesenchyme and the immune system, as well as a minority of epithelial tissues. It can suppress EGFR signaling, increase expression of Caveolin-1, reduce production of reactive oxygen species, regulate collagen expression, regulate MMP collagenase and gelatinase activity, and mediates the renal basement membrane disorder Alport syndrome.

Assay Data

Bis-Tris PAGE



Mouse ITGA1&ITGB1 on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.

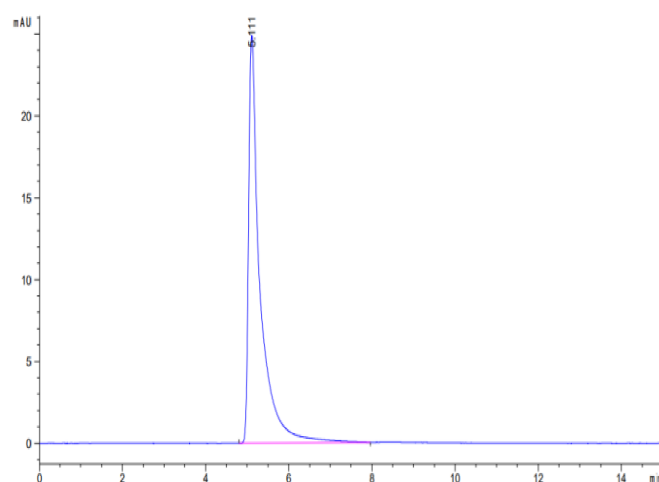
SEC-HPLC

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Assay Data



The purity of Mouse ITGA1&ITGB1 is greater than 95% as determined by SEC-HPLC.