Human Integrin alpha 6 beta 1 (ITGA6&ITGB1) Heterodimer Protein

Cat. No. ITG-HM461

Description

Source	Recombinant Human Integrin alpha 6 beta 1 (ITGA6&ITGB1) Protein is expressed from HEK293 with His tag and Avi tag at the C-Terminus.
	It contains Phe24-Gly1012 (ITGA6) acidic tail and GIn21-Asp728 (ITGB1) basic tail.
Accession	P23229-2 (ITGA6) & P05556-1 (ITGB1)
Molecular Weight	The protein has a predicted MW of 117.9 kDa (ITGA6) and 83.2 kDa (ITGB1). Due to glycosylation, the protein migrates to 140-160 kDa (ITGA6) and 110-150 kDa (ITGB1) under Non reducing (N) condition based on Bis-Tris PAGE result.
Endotoxin	Less than 1 EU per μg by the LAL method.
Purity	> 95% as determined by Bis-Tris PAGE

Formulation and Storage

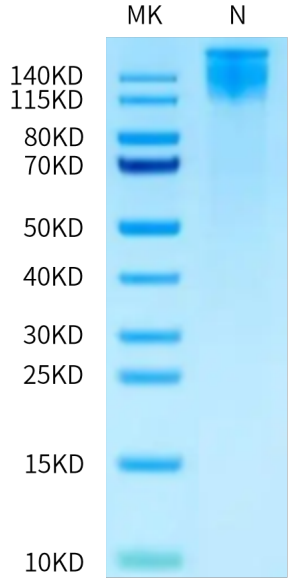
Formulation	Lyophilized from 0.22 μm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 μg/ml is recommended. Dissolve the lyophilized protein in distilled 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

Integrin alpha-6/beta-1 (ITGA6:ITGB1) is a receptor for laminin on platelets. Integrin alpha-6/beta-1 (ITGA6:ITGB1) is present in oocytes and is involved in sperm-egg fusion. Integrin alpha-6/beta-4 (ITGA6:ITGB4) is a receptor for laminin in epithelial cells and it plays a critical structural role in the hemidesmosome (By similarity). ITGA6:ITGB4 binds to NRG1 (via EGF domain) and this binding is essential for NRG1-ERBB signaling

Assay Data

Bis-Tris PAGE



Human ITGA6&ITGB1 on Bis-Tris PAGE under Non reducing (N) condition. The purity is greater than 95%.