Human Integrin alpha 5 beta 1 (ITGA5&ITGB1) Heterodimer Protein

Cat. No. ITG-HM451

Description

Source	Recombinant Human Integrin alpha 5 beta 1 (ITGA5&ITGB1) Heterodimer Protein is expressed from HEK293 with His tag and Avi tag at the C-Terminus.
	It contains Phe42-Tyr995(ITGA5) acidic tail and Gln21-Asp728(ITGB1) basic tail.
Accession	P08648(ITGA5)&P05556-1(ITGB1)
Molecular Weight	The protein has a predicted MW of 111.8 kDa (ITGA5) & 83.2 kDa (ITGB1). Due to glycosylation, the protein migrates to 100-140 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
	> 95% as determined by HPLC

Formulation and Storage

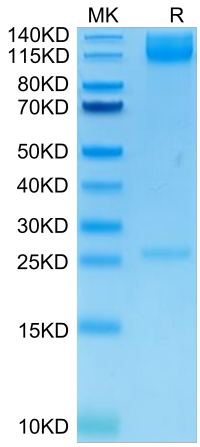
Formulation	Lyophilized from 0.22μm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 μg/ml is recommended. Dissolve the lyophilized protein in distilled water.
Storage	-20 to -80°C for 24 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 5/ beta 1, also known as VLA-5, is a widely expressed non-covalent heterodimer of a 160 kDa alpha 5 and a 130 kDa beta 1 Integrin subunit.Alpha 5/ beta 1 is upregulated on tumor vasculature and promotes angiogenesis.

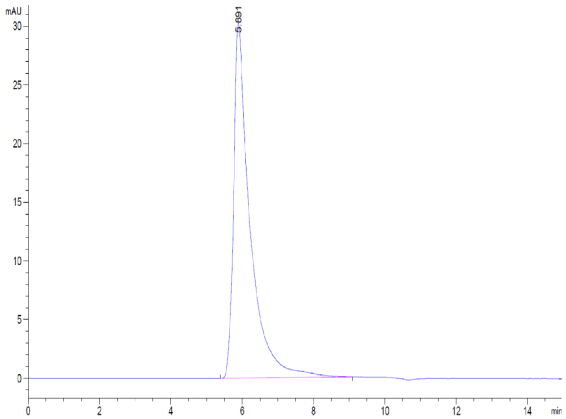
Assay Data

Bis-Tris PAGE



Human ITGA5&ITGB1 on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.

SEC-HPLC



The purity of Human ITGA5&ITGB1 is greater than 95% as determined by SEC-HPLC.

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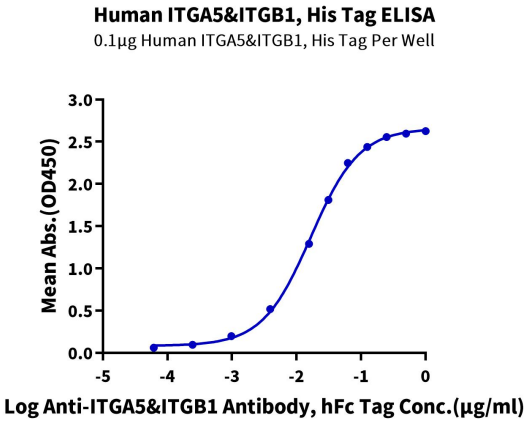
Assay Data

ELISA Data



Immobilized Human ITGA5&ITGB1, His Tag at 1μg/ml (100μl/well) on the plate. Dose response curve for Anti-ITGA5&ITGB1 Antibody, hFc Tag with the EC50 of 16.6ng/ml determined by ELISA (QC Test).