

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



Cat. No. ITG-HM451B

Description

| | |
|-------------------------|---|
| Source | Recombinant Biotinylated Human Integrin alpha 5 beta 1 (ITGA5&ITGB1) Heterodimer Protein is expressed from Expi293 with His tag and Avi tag at the C-terminal. It contains Phe42-Tyr995(ITGA5) acidic tail&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 110-140 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 > 90% as determined by HPLC |

Formulation and Storage

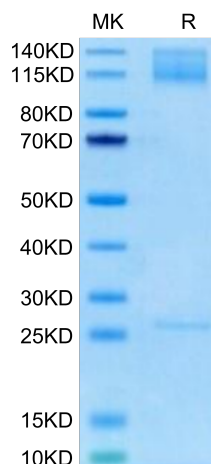
| | |
|-----------------------|--|
| Formulation | Lyophilized from 0.22µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization. |
| Reconstitution | Centrifuge tubes before opening. Reconstituting to a concentration more than 100 µg/ml is recommended. 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 avoid 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

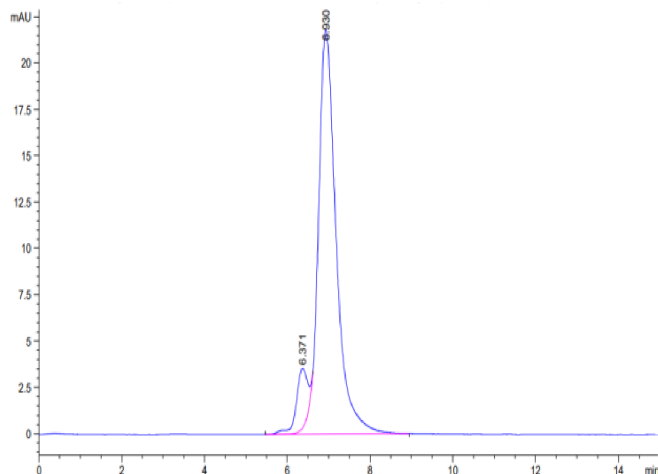
Tris-Bis PAGE



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

SEC-HPLC

Assay Data

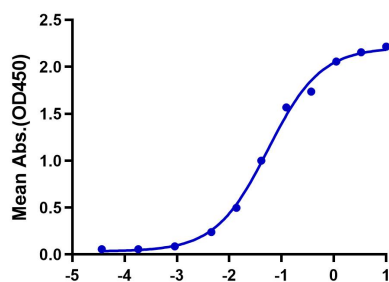


The purity of Biotinylated Human ITGA5&ITGB1 is greater than 90% as determined by SEC-HPLC.

ELISA Data

Biotinylated Human ITGA5&ITGB1, His Tag ELISA

0.05µg Anti-ITGA5&ITGB1 Antibody, hFc Tag Per Well



Immobilized 0.5µg Anti-ITGA5&ITGB1 Antibody, hFc Tag at 0.5µg/ml (100µl/Well) on the plate. Dose response curve for Biotinylated Human ITGA5&ITGB1, His Tag with the EC50 of 55.3ng/ml determined by ELISA.

Log Biotinylated Human ITGA5&ITGB1, His Tag Conc.(µg/ml)