

Human Integrin alpha V beta 3 (ITGAV&ITGB3) Heterodimer Protein



Cat. No. ITG-HM4V3

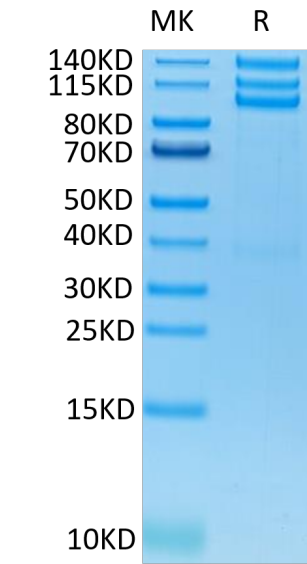
| Description | |
|------------------|--|
| Source | Recombinant Human Integrin alpha V beta 3 (ITGAV&ITGB3) Heterodimer Protein is expressed from HEK293 with His tag and Avi tag at the C-Terminus of ITGAV. It contains Phe31-Val992 (ITGAV) acidic tail and Gly27-Asp718 (ITGB3) basic tail. |
| Accession | P06756-1(ITGAV)&P05106-1(ITGB3) |
| Molecular Weight | The protein has a predicted MW of 114 kDa (ITGAV) & 81.3 kDa (ITGB3). Due to glycosylation,the protein migrates to 85-140 kDa 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 > 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 | |
|---|--|
| ITGAV&ITGB3 binds to NRG1 (via EGF domain) and this binding is essential for NRG1-ERBB signaling. ITGAV&ITGB3 binds to FGF1 and this binding is essential for FGF1 signaling. ITGAV&ITGB3 binds to FGF2 and this binding is essential for FGF2 signaling. ITGAV&ITGB3 binds to IGF1 and this binding is essential for IGF1 signaling. ITGAV&ITGB3 binds to IGF2 and this binding is essential for IGF2 signaling. | |

Assay Data

Bis-Tris PAGE



Human ITGAV&ITGB3 on Bis-Tris PAGE under reduced conditions. The purity is greater than 95%.

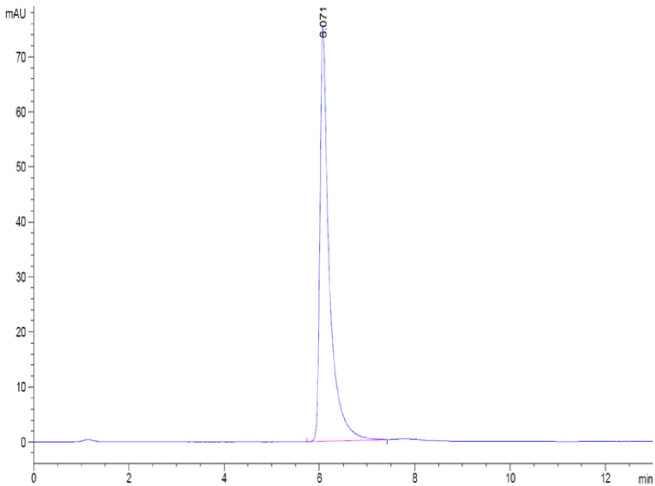
SEC-HPLC

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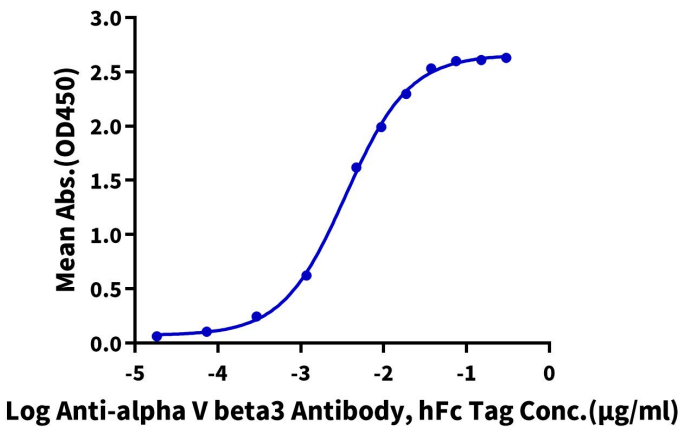


The purity of Human ITGAV&ITGB3 is greater than 95% as determined by SEC-HPLC.

ELISA Data

Human ITGAV&ITGB3, His Tag ELISA

0.2µg Human ITGAV&ITGB3, His Tag Per Well



Immobilized Human ITGAV&ITGB3, His Tag at 2µg/ml (100µl/well) on the plate. Dose response curve for Anti-alpha V beta3 Antibody, hFc Tag with the EC50 of 3.5ng/ml determined by ELISA.