

Mouse Integrin alpha V beta 8 (ITGAV&ITGB8) Heterodimer Protein

Cat. No. ITG-MM1V8

Description

Source	Recombinant Mouse Integrin alpha V beta 8 (ITGAV&ITGB8) Heterodimer Protein is expressed from HEK293 with His tag at the C-Terminus. It contains Phe31-Val988(ITGAV) acidic tail & Gly22-Ser679(ITGB8) basic tail.
Accession	P43406(ITGAV)&Q0VBD0(ITGB8)
Molecular Weight	The protein has a predicted MW of 111.6(ITGAV) & 76.6(ITGB8) kDa. Due to glycosylation, the protein migrates to 80-140 kDa based on Bis-Tris PAGE result.
Endotoxin	Less than 1EU per μ g by the LAL method.
Purity	> 95% as determined by Bis-Tris PAGE > 95% as determined by HPLC

Formulation and Storage

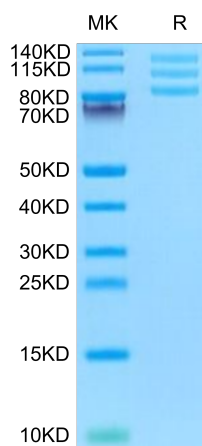
Formulation	Lyophilized from 0.22 μ m filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 μ g/ml is recommended. Dissolve the lyophilized protein in distilled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

Deletions of the genes encoding the integrin α V β 8 (Itgav, Itgb8) have been shown to result in abnormal vascular development in the CNS, including prenatal and perinatal hemorrhage. Other work has indicated that a major function of this integrin in vivo is to promote TGF β activation.

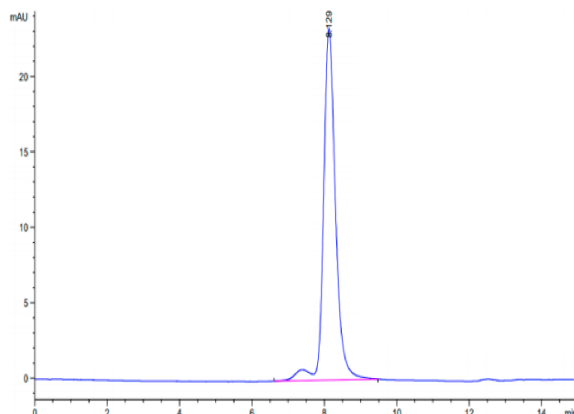
Assay Data

Bis-Tris PAGE



Mouse ITGAV&ITGB8 on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.

SEC-HPLC



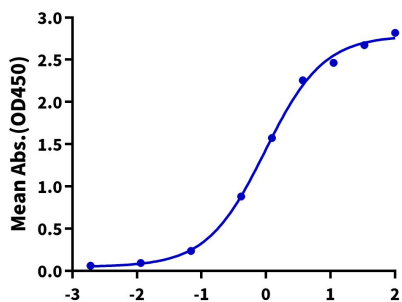
The purity of Mouse ITGAV&ITGB8 is greater than 95% as determined by SEC-HPLC.

Assay Data

ELISA Data

Mouse ITGAV&ITGB8, His Tag ELISA

0.5µg Mouse ITGAV&ITGB8, His Tag Per Well



Immobilized Mouse ITGAV&ITGB8, His Tag at 5µg/ml (100µl/Well) on the plate. Dose response curve for Biotinylated Human Latent TGF beta 1, His Tag with the EC50 of 0.97µg/ml determined by ELISA.