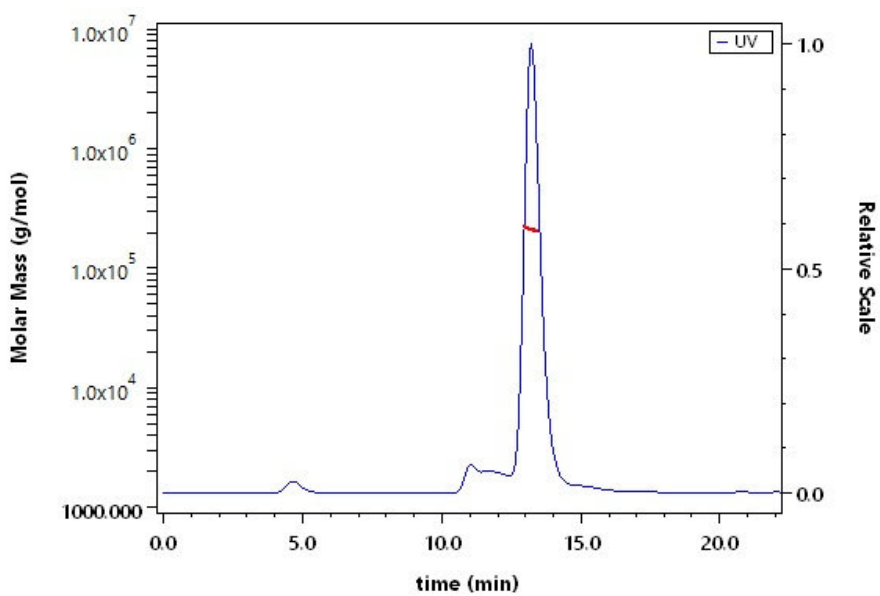
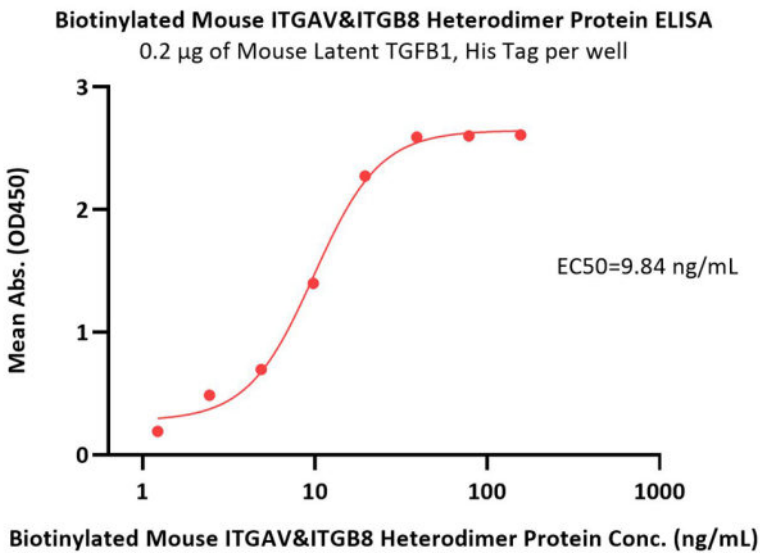


Biotinylated Mouse ITGAV&ITGB8 Heterodimer Protein on SDS-PAGE under non-reducing (NR) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 95%.

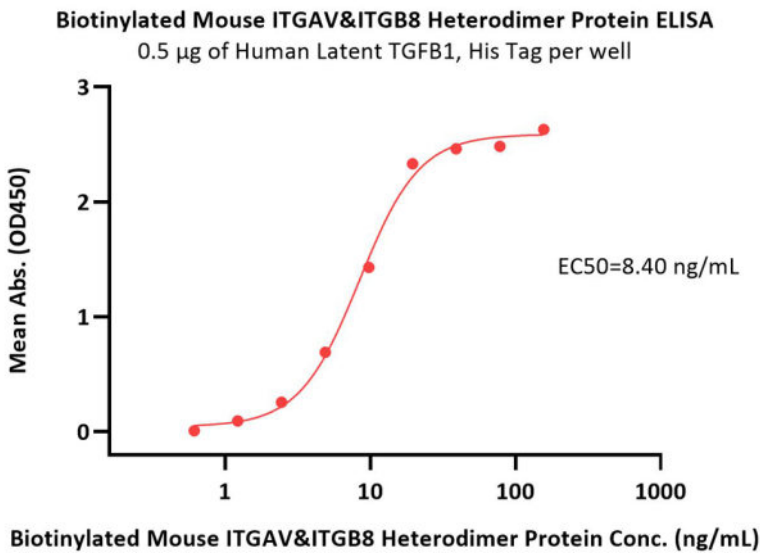


The purity of Biotinylated Mouse ITGAV&ITGB8 Heterodimer Protein (Cat. No. IT8-M52W7) is more than 85% and the molecular weight of this protein is around 195-245 kDa verified by SEC-MALS.

Bioactivity-ELISA



Immobilized Mouse Latent TGFβ1, His Tag (Cat. No. TG1-M5245) at 2 μg/mL (100 μL/well) can bind Biotinylated Mouse ITGAV&ITGB8 Heterodimer Protein (Cat. No. IT8-M52W7) with a linear range of 1-20 ng/mL (QC tested).



Immobilized Human Latent TGFβ1, His Tag (Cat. No. TG1-H524x) at 5 μg/mL (100 μL/well) can bind Biotinylated Mouse ITGAV&ITGB8 Heterodimer Protein (Cat. No. IT8-M52W7) with a linear range of 2-20 ng/mL (Routinely tested).

Background

Integrin alpha V beta 8 (ITGAV & ITGB8 or ITGAVB8) is expressed in yolk sac, placenta, brain perivascular astrocytes, Schwann cells, renal glomerular mesangial cells and pulmonary epithelial cells. Unlike other alpha V integrins, ITGAVB8 does not appear to assume different activation states, and the cytoplasmic tail does not connect to the cytoskeleton. It binds ligands containing an RGD motif, including vitronectin, fibrin and the latency associated peptide (LAP) of the latent TGF-beta complex. High affinity binding of alpha V beta 8 to LAP allows proteolytic cleavage by MT1-MMP, which releases active TGF-beta. This mechanism differs from that of alpha V beta 6, the other alpha V integrin which can activate TGF-beta from latency through non-proteolytic mechanisms. Downstream effects of TGF-beta activation include control of cell growth and associated vascularization.

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