

Biotinylated Human/Cynomolgus Activin RIIB/ACVR2B Protein

Cat. No. ARB-HM52BB

Description

Source	Recombinant Biotinylated Human/Cynomolgus Activin RIIB/ACVR2B Protein is expressed from HEK293 with hFc tag and Avi tag at the C-terminus. It contains Ser19-Thr137 (Human) / Ser40-Thr158 (Cynomolgus).
Accession	Q13705-1(Human) / XP_045242398.1(Cynomolgus)
Molecular Weight	The protein has a predicted MW of 41.41 kDa. Due to glycosylation, the protein migrates to 55-70 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

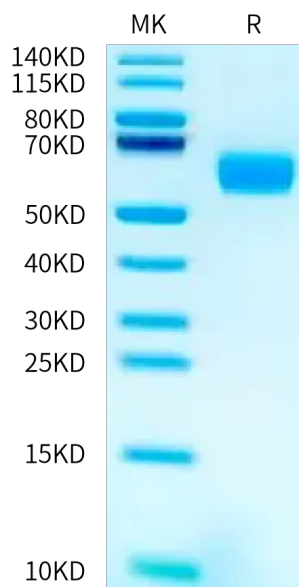
Formulation	Lyophilized from 0.22 μm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 $\mu\text{g}/\text{ml}$ is recommended. Dissolve the lyophilized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

ActRIIB (activin receptor type-2B) is an activin receptor subtype constitutively expressed in the whole body, playing a role in cellular proliferation, differentiation, and metabolism. For its various physiological activities, ActRIIB interacts with activin and multiple other ligands including myostatin (MSTN), growth differentiation factor 11 (GDF11), and bone morphogenetic protein 9 (BMP9).

Assay Data

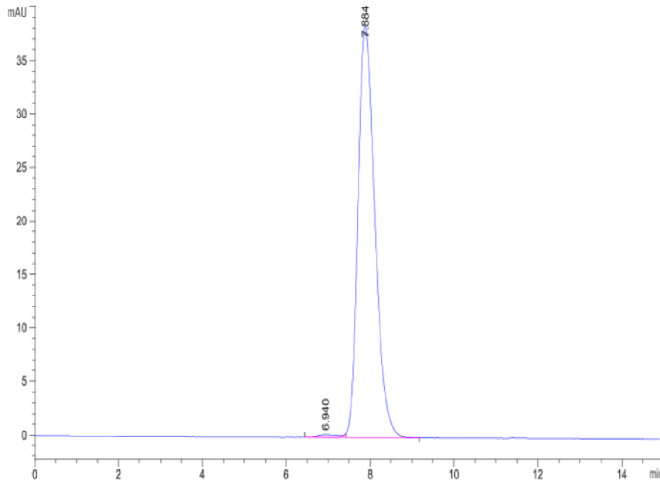
Bis-Tris PAGE



Biotinylated Human/Cynomolgus Activin RIIB on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.

SEC-HPLC

Assay Data

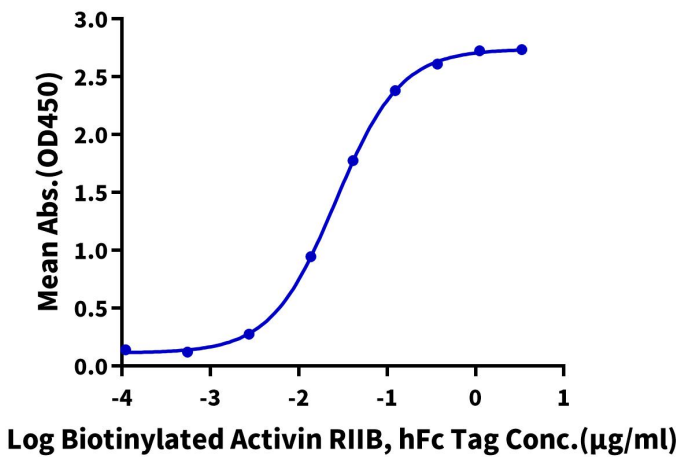


The purity of Biotinylated Human/Cynomolgus Activin RIIB is greater than 95% as determined by SEC-HPLC.

ELISA Data

Biotinylated Activin RIIB, hFc Tag ELISA

0.1µg Human Activin A, No Tag Per Well

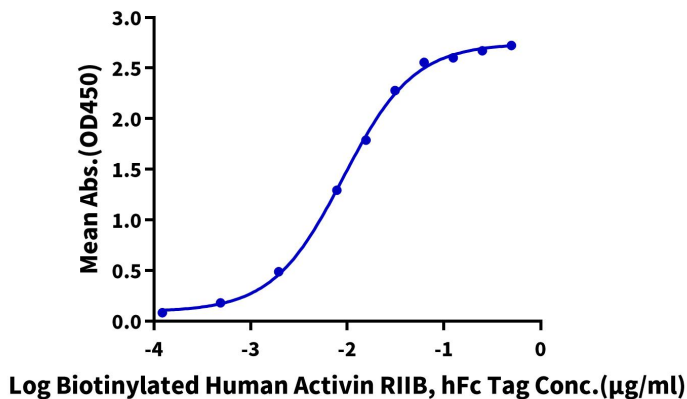


Immobilized Human Activin A, No Tag at 1µg/ml (100µl/well) on the plate. Dose response curve for Biotinylated Human/Cynomolgus Activin RIIB, hFc Tag with the EC50 of 26.2ng/ml determined by ELISA (QC Test).

ELISA Data

Biotinylated Human Activin RIIB, hFc Tag ELISA

0.05µg Anti-Activin RIIB Antibody, hFc Tag Per Well



Immobilized Anti-Activin RIIB Antibody, hFc Tag at 0.5µg/ml (100µl/well) on the plate. Dose response curve for Biotinylated Human/Cynomolgus Activin RIIB, hFc Tag with the EC50 of 9.1ng/ml determined by ELISA.