

# Biotinylated Human/Cynomolgus Activin RIIB/ACVR2B Protein (Primary Amine Labeling)



Cat. No. ARB-HM32BB

Description	
Source	Recombinant Biotinylated Human/Cynomolgus Activin RIIB/ACVR2B Protein (Primary Amine Labeling) is expressed from HEK293 with mFc (IgG1) 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 39.32 kDa. Due to glycosylation, the protein migrates to 50-70 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

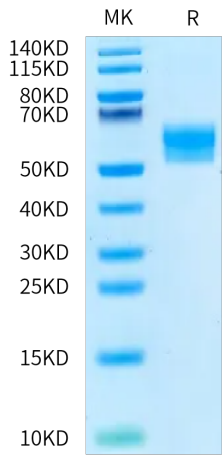
Formulation and Storage	
Formulation	Lyophilized from 0.22 µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 µg/ml is recommended. Dissolve the lyophilized protein in distilled water.
Storage	-20 to -80°C for 12 months as supplied from date of receipt. -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).

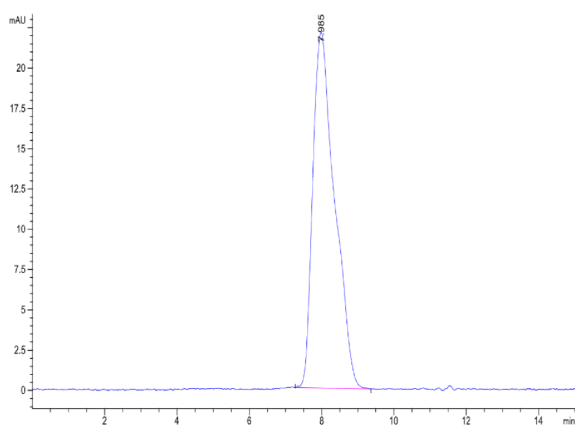
## Assay Data

### Bis-Tris PAGE



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

### SEC-HPLC



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

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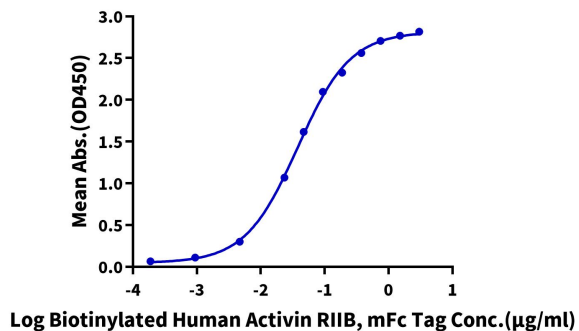
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## Assay Data

### ELISA Data

#### Biotinylated Human Activin RIIB, mFc Tag ELISA

0.2µg Human Activin A, No Tag Per Well



Immobilized Human Activin A, No Tag at 2µg/ml (100µl/well) on the plate. Dose response curve for Biotinylated Human/Cynomolgus Activin RIIB, mFc Tag with the EC50 of 37.8ng/ml determined by ELISA (QC Test).