Mouse Activin RIIB/ACVR2B Protein

Cat. No. ARB-MM12B

Description

Source	Recombinant Mouse Activin RIIB/ACVR2B Protein is expressed from HEK293 with His tag at the C-Terminus.
	It contains Ser19-Thr137.
Accession	P27040-1
Molecular Weight	The protein has a predicted MW of 14.78 kDa. Due to glycosylation, the protein migrates to 30-50 kDa based on Tris-Bis PAGE result.
Endotoxin	Less than 1EU per μg by the LAL method.
Purity	> 95% as determined by Tris-Bis PAGE
	> 95% as determined by HPLC

Formulation and Storage

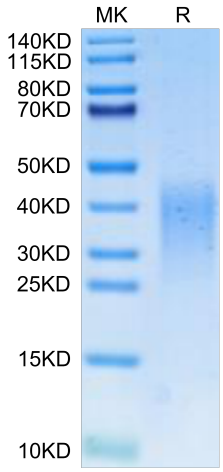
Formulation	Lyophilized from 0.22 μm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 μg/ml is recommended. Dissolve the lyophilized protein in distilled water.
Storage	-20 to -80°C for 12 months as supplied from date of receipt. -80°C for 3-6 months after reconstitution. 2-8°C for 2-7 days 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).

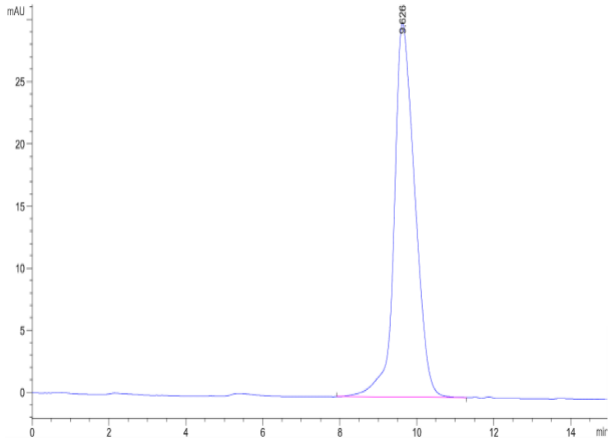
Assay Data

Tris-Bis PAGE



Mouse Activin RIIB on Tris-Bis PAGE under reduced condition. The purity is greater than 95%.

SEC-HPLC



The purity of Mouse Activin RIIB is greater than 95% as determined by SEC-HPLC.

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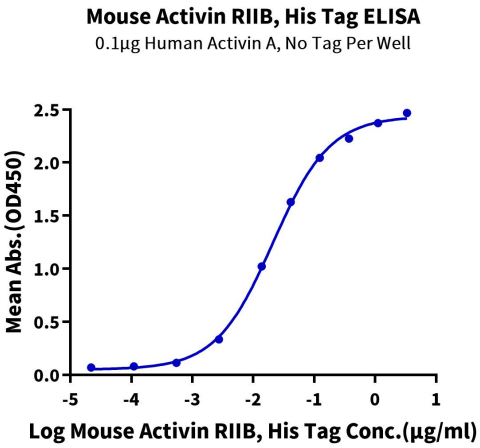
Assay Data

ELISA Data



Immobilized Human Activin A, No Tag at 1μg/ml (100μl/well) on the plate. Dose response curve for Mouse Activin RIIB, His Tag with the EC50 of 22.1ng/ml determined by ELISA.