

Rat Activin RIIA/ACVR2A Protein, Ultra Low Endotoxin



Cat. No.   ARA-RM12A-UL

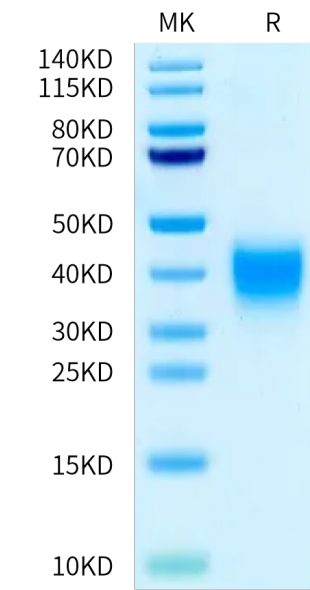
Description	
Source	Recombinant Rat Activin RIIA/ACVR2A Protein is expressed from HEK293 with His tag at the C-terminus. It contains Ala20-Pro135.
Accession	P38444
Molecular Weight	The protein has a predicted MW of 15.06 kDa. Due to glycosylation, the protein migrates to 35-45 kDa based on Bis-Tris PAGE result.
Endotoxin	Less than 0.01 EU 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	Dissolve the lyophilized protein in distilled water. Please refer to the Certificate of Analysis for detailed instructions.
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	
Activin A receptor type 2A (ACVR2A) is a membrane receptor in the transforming growth factor- beta (TGF-β signaling pathway, which is involved in the regulation of cell proliferation, migration, and apoptosis. Loss of ACVR2A has an important role in cancer progression and distant metastasis and may serve as a prognostic marker in patients with colon cancer.	

Assay Data

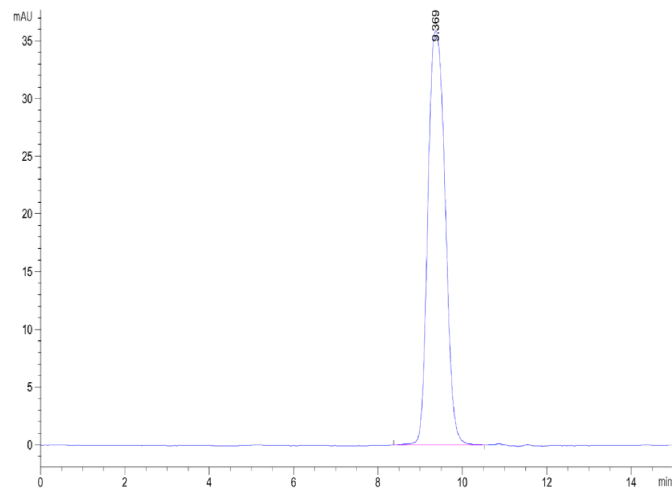
Bis-Tris PAGE



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

SEC-HPLC

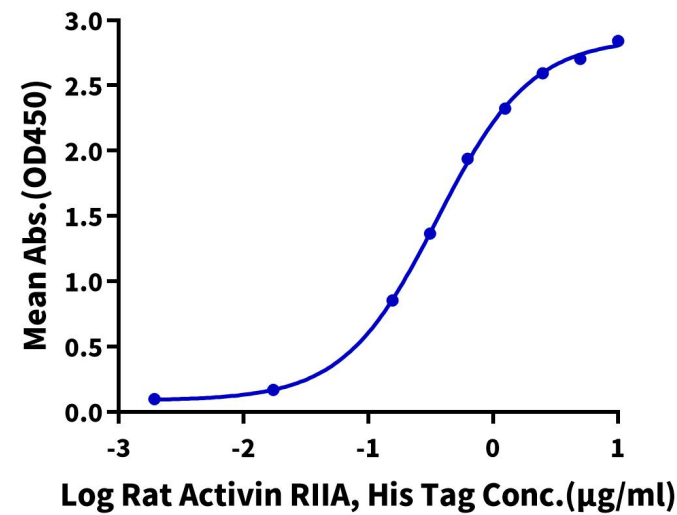
Assay Data



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

ELISA Data

**Rat Activin RIIA, His 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 Rat Activin RIIA, His Tag with the EC50 of 0.36µng/ml determined by ELISA (QC Test).