

Rat Activin RIIA/ACVR2A Protein

Cat. No. ARA-RM12A

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 1EU per μ g by the LAL method.
Purity	>95% as determined by Bis-Tris PAGE >95% as determined by HPLC

Formulation and Storage

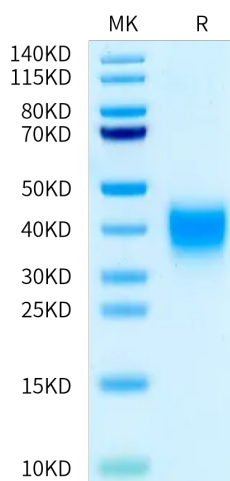
Formulation	Supplied as 0.22 μ m filtered solution in PBS (pH 7.4).
Storage	Valid for 12 months from date of receipt when stored at -80°C. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.

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.

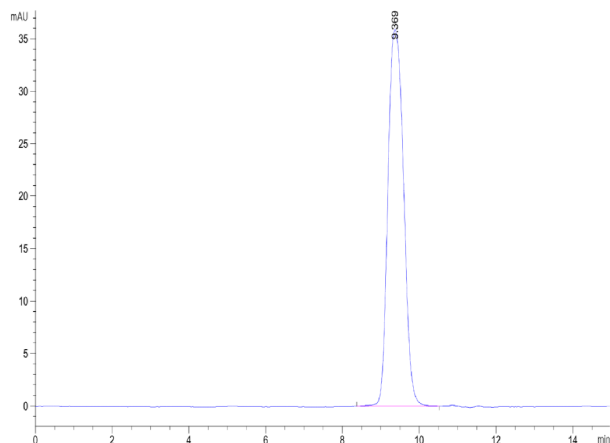
Assay Data

Bis-Tris PAGE



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

SEC-HPLC



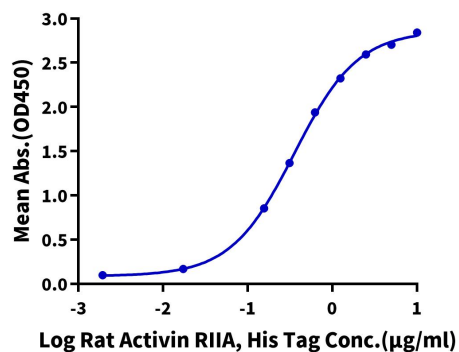
The purity of Rat Activin RIIA is greater than 95% as determined by SEC-HPLC.

Assay Data

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).