

Human Activin RIIA/ACVR2A Protein

Cat. No. ARA-HM12A

Description

Source	Recombinant Human Activin RIIA/ACVR2A Protein is expressed from HEK293 with His tag at the C-Terminus. It contains Ala20-Pro135.
Accession	P27037-1
Molecular Weight	The protein has a predicted MW of 14.50 kDa. Due to glycosylation, the protein migrates to 30-42 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

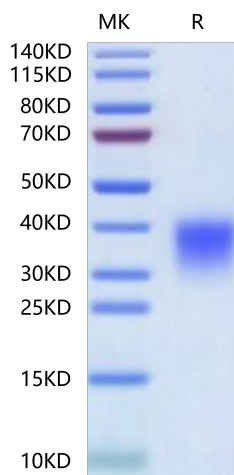
Formulation	Lyophilized from 0.22 µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 µg/ml is recommended. Dissolve the lyophilized protein in distilled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

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.

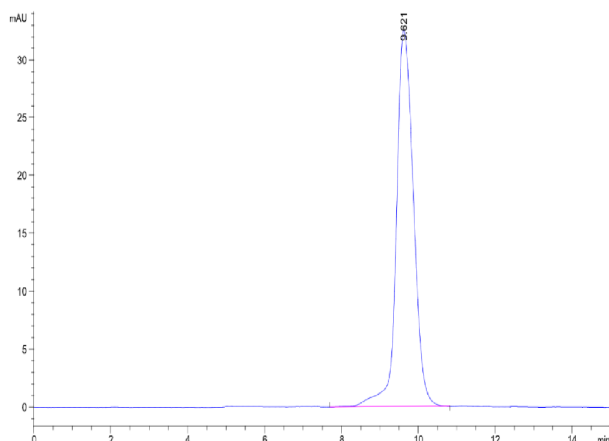
Assay Data

Tris-Bis PAGE



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

SEC-HPLC



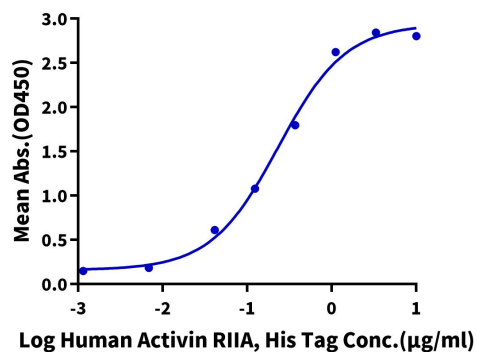
The purity of Human Activin RIIA is greater than 95% as determined by SEC-HPLC.

Assay Data

ELISA Data

Human Activin RIIA, His Tag ELISA

0.5µg Human Activin A, No Tag Per Well



Immobilized Human Activin A, No Tag at 5µg/ml (100µl/well) on the plate. Dose response curve for Human Activin RIIA, His Tag with the EC50 of 0.23µg/ml determined by ELISA.