

Human Activin RIIA/ACVR2A Protein

Cat. No. ARA-HM22A

Description

Source	Recombinant Human Activin RIIA/ACVR2A Protein is expressed from HEK293 with hFc tag at the C-terminus. It contains Ala20-Pro135.
Accession	P27037-1
Molecular Weight	The protein has a predicted MW of W 39.35 kDa. Due to glycosylation, the protein migrates to 55-65 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

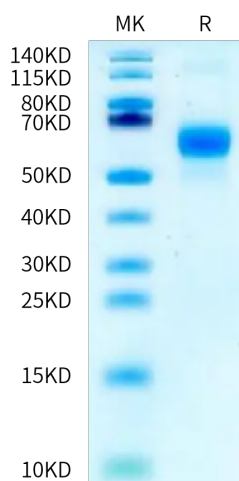
Formulation	Supplied as 0.22 μm filtered solution in PBS (pH 7.4).
Storage	Valid for 12 months from date of receipt when stored at -80°C . Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.

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.

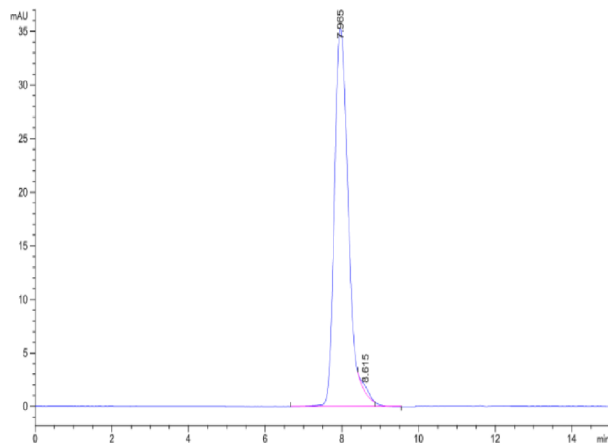
Assay Data

Tris-Bis PAGE



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

SEC-HPLC



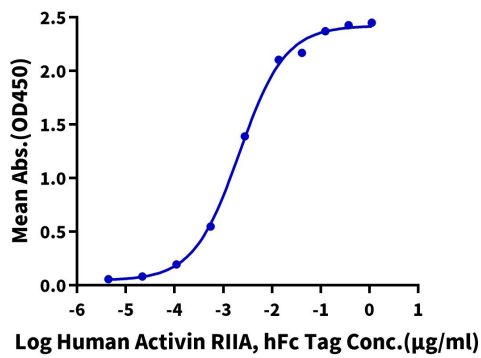
The purity of Human Activin RIIA is greater than 95% as determined by SEC-HPLC.

Assay Data

ELISA Data

Human Activin RIIA, hFc Tag ELISA

0.1µg Human Activin A, No Tag Per Well



Immobilized Human Activin A, No Tag at 1µg/ml (100µl/well) on the plate. Dose response curve for Human Activin RIIA, hFc Tag with the EC50 of 2.1ng/ml determined by ELISA.