

Human/Cynomolgus Activin RIIA/ACVR2A Protein

Cat. No. ARA-HM32A

Description

Source	Recombinant Human/Cynomolgus Activin RIIA/ACVR2A Protein is expressed from HEK293 with mFc (IgG1) tag at the C-terminus. It contains Ala20-Pro135.
Accession	P27037-1(Human) / G7PKJ4(Cynomolgus)
Molecular Weight	The protein has a predicted MW of 39.07 kDa. Due to glycosylation, the protein migrates to 52-62 kDa based on Bis-Tris PAGE result.
Endotoxin	Less than 1EU per μg by the LAL method.
Purity	> 95% as determined by Bis-Tris PAGE > 95% as determined by HPLC

Formulation and Storage

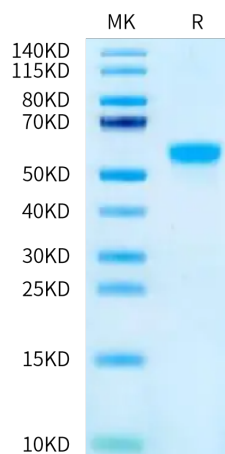
Formulation	Lyophilized from 0.22 μm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 $\mu\text{g}/\text{ml}$ is recommended. Dissolve the lyophilized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

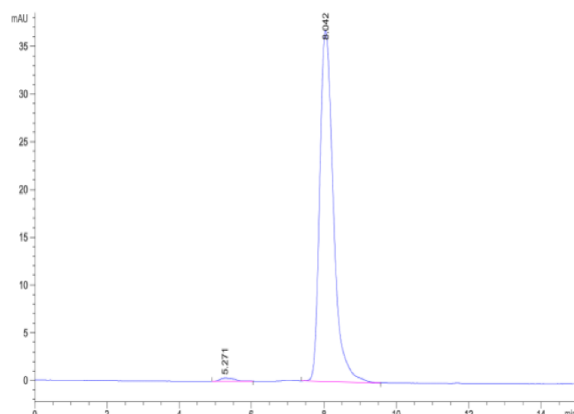
Assay Data

Bis-Tris PAGE



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

SEC-HPLC



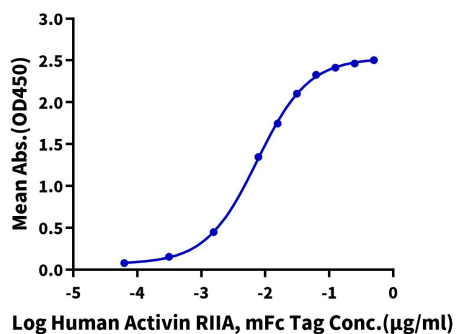
The purity of Human/Cynomolgus Activin RIIA is greater than 95% as determined by SEC-HPLC.

Assay Data

ELISA Data

Human Activin RIIA, mFc 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/Cynomolgus Activin RIIA, mFc Tag with the EC50 of 7.4ng/ml determined by ELISA.