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 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

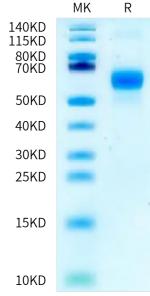
Formulation	Lyophilized from 0.22 μ m filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 µg/ml is recommended. Dissolve the lyophilized protein in distilled water.
Storage	-20 to -80°C for 12 months as supplied from date of receipt80°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

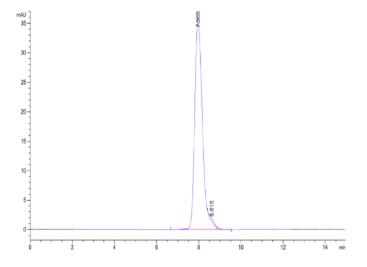


Human Activin RIIA on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.

SEC-HPLC

KAGTUS

Assay Data

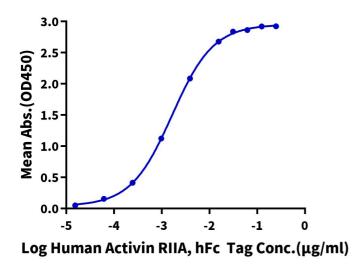


The purity of Human Activin RIIA is greater than 95% as determined by SEC-HPLC.

ELISA Data

Human Activin RIIA, hFc Tag ELISA

0.1μg Human Activin A, No Tag Per Well



Immobilized Human Activin A, No Tag at $1\mu g/ml$ (100 $\mu l/well$) on the plate. Dose response curve for Human Activin RIIA, hFc Tag with the EC50 of 1.6ng/ml determined by ELISA (QC Test).

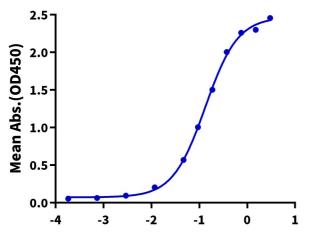
ELISA Data

Assay Data



Human Activin RIIA, hFc Tag ELISA

0.2μg Human/Mouse/Rat GDF-8, No Tag Per Well



Log Human Activin RIIA, hFc Tag Conc.(μg/ml)

Immobilized Human/Mouse/Rat GDF-8, No Tag at 2 μ g/ml (100 μ l/well) on the plate. Dose response curve for Human Activin RIIA, hFc Tag with the EC50 of 0.13 μ g/ml determined by ELISA.