Biotinylated Human Activin A Protein

ACV-HM401B Cat. No.



Description	
Source	Recombinant Biotinylated Human Activin A Protein is expressed from HEK293 with Avi tag at the C-terminus
	It contains Gly311-Ser426.
Accession	P08476
Molecular Weight	The protein has a predicted MW of 14.78 kDa. Due to glycosylation, the protein migrates to 15-18 kDa based on Bis-Tris PAGE result.
Endotoxin	Less than 1 EU per μg by the LAL method.
Purity	>95% as determined by Bis-Tris PAGE
Formulation and	Storage

Formulation Supplied as 0.22 µm filtered solution in 4 mM HCL.

Valid for 12 months from date of receipt when stored at -80°C Recommend to aliquot the protein into smaller

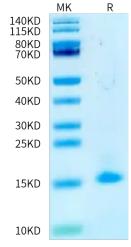
Storage quantities for optimal storage. Please minimize freeze-thaw cycles.

Background

Activin-A, a member of the TGF-β superfamily, Extensive research over the past decades illuminated fundamental roles for activin-A in essential biologic processes, including embryonic development, stem cell maintenance and differentiation, haematopoiesis, cell proliferation and tissue fibrosis. Activin-A signals through two type I and two type II receptors which, upon ligand binding, activate their kinase activity, phosphorylate the SMAD2 and 3 intracellular signaling mediators that form a complex with SMAD4, translocate to the nucleus and activate or silence gene expression.

Assay Data

Bis-Tris PAGE

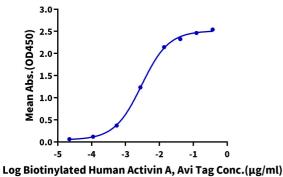


Biotinylated Human Activin A on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.

ELISA Data

Biotinylated Human Activin A, Avi Tag ELISA

0.1μg Human Activin RIIB, His Tag Per Well



Immobilized Human Activin RIIB, His Tag at 1 μg/ml (100 μl/well) on the plate. Dose response curve for Biotinylated Human Activin A, Avi Tag with the EC50 of 3.0 ng/ml determined by ELISA (QC Test).

Biotinylated Human Activin A Protein

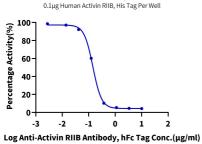
Cat. No. ACV-HM401B

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Assay Data

Blocking Data

Inhibition of Human Activin RIIB and Biotinylated Human Activin A Binding



Serial dilutions of Anti-Activin RIIB Antibody were added into Human Activin RIIB, His Tag: Biotinylated Human Activin A, Avi Tag binding reactioins. The half maximal inhibitiory concentration (IC50) is 0.14µg/ml.